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AMERICAN RAILROAD JOURNAL.

STEAM NAVIGATION, COMMERCE, MINING, MANUFACTURES.

HENRY V. POOR, Editor.

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American Railroad Journal.

PUBLISHED BY J. H. SCHULTZ & CO., No. 9 SPRUCE ST.

Saturday, August 12, 1854.

Chicago and St. Louis Railroad.

The opening of the Chicago and St. Louis Railroad for business, which took place last week, is our railroads; ranking in importance with the opening of the first lines of road from the seaboard to the great Lakes and the Ohio; and from these, to the great interior towns of Indianapolis, Chicago and Cincinnati. Chicago and St. Louis are first the basis of the commerce of each are mainly different in kind, and in the exchange of which commerce consists. St. Louis may be regarded as the depot for all the products, used north of the counmajority of such must pass through it to the points of consumption. Chicago occupies a simiof that city. The natural routes of commerce are upon the lines of longitude, as with every parallel avenue for the exchange of products of widely se- for business, at \$4,232,780, or about \$22,000 to the

whole circle of products.

also traverses a portion of Illinois second to none length passes through what is already one of the best settled, and best cultivated portions of the markets. State, and through Springfield, the seat of government and the largest interior town. The country ern in natural capabilities. The country for the whole length of the road will yield to it a liberal which to a considerable extent must render every connecting road tributary to the former.

Louis is about 280 miles. From St. Louis to Alton, measured both by its business and receipts. a distance of about 20 miles, the present route is by the river, From Alton to Joliet, the point of junction with the Rock Island road, the distance more than an ordinary event in the progress of pleted line of the Chicago and Mississippi Road. up to the present time, and the means for the For the present, the Rock Island Road from Joliet further progress of their road. to Chicago, a distance of about 40 miles, will be linoistown railroad, now in progress.

try south of the parallel of that city, as the great in either direction for the country it traverses, ness must protect it from all competition for the metropolis of the Gulf. lar relation to the country to the North and West business to which it may properly lay claim. As The Chief Engineer G. S. Runey, Esq., estimates a through route it must always form an important the total cost of the road, moderately equipped

of latitude, products differ. The North supplies parated portions of the country. With certain arthe South the cereals, provisions of various kinds ticles, such assugar, rice and cotton, Chicago will aland manufactured goods, which are exchanged for ways be supplied through the medium of the Missugar, rice, and cotton, of the former: the wants sissippi River. Through the same channel will of each individual requiring his portion of the she also receive numerous other items of merchandize, such as iron, salt and manufactured goods. Between such extremes is the above road the St. Louis is the convenient point at which the buconnecting link, and the shortest possible one. It siness designed for Chicago will leave the River, and the above road, the one which it will take in that great State, for its fertility and extent of to that city. The converse of the proposition is productions. The road for about one-half of its equally true of Chicago, and the produce and merchandize collected in that city for southern

Chicago is the great city of the North west, and is to the territory north and west of it, what New upon the northern part of its line is yet only spar- York is to the whole country. It must always be sely peopled, but is equally rich with the south- the point of distribution of merchandize of a very large section of the Union. As extravagant as the estimate may appear, we believe the populasupport, a business which can never be carried tion of that city must reach 150,000 by 1860. The away by other roads, as the Chicago and St. Louis right arm which connects such a city, the comoccupies the shortest practicable route, a fact mercial metropolis of the Lakes, with that portion of the country from which it must always receive some of the lealing articles which constitute its The entire distance between Chicago and St. commerce, cannot fail to be a first class road as

Mobile and Girard Railroad.

Below we give the recent report of this comis about 220 miles, and which constitutes the com- pany which presents its plans, the progress made

The above road is of first importance both to used. The saving effected over the route previous- the region traversed, and to the railway system of ly followed by Lasalle, is about 30 miles. As soon the country. Connecting with navigable waters as the road can be placed in good working order, only at either end, it must command all the busiclass cities in the great valley, and are so far dis- the time between the two cities will be reduced ness of the country upon its line, a part of which tant from each other, that the staples that form to 12 hours, A saving of another hour will be runs through one of the best portions of Alabama. effected by the completion of the Alton and Il- The city of Columbus, at its eastern terminus is connected with the railway system of Georgia, and In our view, the above line of road is one of the through this with that of the Northern and Eastbest in the West. It affords the convenient outlet ern States. The completion of the above road in either direction for the country it traverses, will carry this system to Mobile, whence a rail-which is one of the best in the West. Its direct-road is in progress to New Orleans, the commercial

mile. The estimate for graduation is about \$8,000 per mile showing a favorable line. The cost of superstructure is estimated at about \$6,000 per mile. Timber of the best kind for ties and structures is abundant. The greater part of the line is very healthy.

From the route occupied by the above road we have no doubt it will prove a profitable work. We see no reason to doubt that its receipts would equal those of the Georgia roads, which are among the most productive in the country. It would be without a rival for the business at which it aims, which is certainly sufficient in our opinion to yield a lucrative income.

REPORT OF THE DIRECTORS.

At your last annual meeting a resolution was adopted, requesting the Directors to apply to the Legislature for an amendment of your charter, providing that the annual meeting of the stock-holders should be held on the first Monday in July, instead of in March, of each year. The amendment was applied for and made, and you are now assembled agreeably to that amendment. Another amendment to the charter was, at the same time, passed by the Legislature, changing the corporate name of the Company to that of the Mobile and Girard Railroad Company. These and other amendments made by the last Legis-lature will be submitted to you, and it is sug-gested that you adopt a resolution accepting the

During the last year the city of Mobile passed an ordinance making a subscription of one million dollars to the capital stock of our Company, upon certain conditions specified in said ordinance. This ordinance was subsequently submitted to the people of Mobile for approval or rejection, and was confirmed by a very large majority of the popular vote. As the subscription thus made was to be paid in the bonds of the city, the interest and principal to be met by taxing the citizens, it was necessary that it should be sanctioned by an act of the State Legislature; such an act was passed, and the subscription now stands confirmed. The ordinance making the subscription, with the act of the Legislature referred to, accompanies this report. The Board of Directors, at a regular meeting in July last, adopted a resolution accepting the subscription upon the terms proposed, and, subsequently, three gentlemen, residing in Mobile and indicated by the City Authorities, were elect-ed Directors in the place of Messrs. Abercrombie, Gachett and Dawson, who resigned for that pur-pose. Although the Board have accepted this subscription by formal resolution, and have acted apon it, yet it is deemed necessary and proper that the same be submitted to the approval of the stockholders. Your attention is therefore called to this subject, and you are respectfully requested to pass a resolution accepting the subscription agreeably to its terms.

Prior to the making of this subscription, it was the determination of the Company to make the western terminus of the road on the Tensaw river. The acceptance of the subscription devolves upon the Company the obligation of crossing the Ten-saw and Mobile rivers, and extending the road to the city of Mobile.

In addition to the subscription of one million dollars by the corporate authority of Mobile, about fifty thousand dollars have been subscribed by individuals in that city, since your last meet-ing and some ten or fifteen thousand dollars on ing and some ten or fifteen thousand donars on the line between Columbus and Mobile. The Report of the Treasurer will exhibit the aggregate amount of cash and other subscriptions, as now exhibited by the books of the Company. A particular reference to the character and availability of these subscriptions will be hereafter made in

In the year 1851 the city of Columbus sub-scribed one hundred and fifty thousand dollars to the stock of the Comrany, payable in her seven

per cent. bonds. This subscription was made with the express provision that it should be applied to the purchase of iron. At that time railroad iron could be imported into the United States at about forty to forty-five dollars per ton, and the subscription in question was intended and believed subscription in question was intended and believed will bring to the business of these roads, and to to be sufficient to purchase all the iron necessary to cover the road to Chunnenuggee, a distance of liberal subscriptions from these quarters. Appliating the liberal subscription from these quarters. Appliating the hands of the Board of Directors, it was late in the fall of last year before any contact of the subscription made by the city of Mobile is, by its terms, applicable only to that part of the subscription made by the city of Mobile is, by its terms, applicable only to that part of the subscription made by the city of Mobile is, by its terms, applicable only to that part of the subscription made by the city of Mobile is, by its terms, applicable only to that part of the subscription made by the city of Mobile is, by its terms, applicable only to that part of the subscription made by the city of Mobile is, by its terms, applicable only to that part of the subscription made by the city of Mobile is, by its terms, applicable only to that part of the subscription made by the city of Mobile is, by its terms, applicable only to that part of the contact of the city of Mobile is, by its terms, applicable only to the city of Mobile is, by its terms, applicable only to the city of Mobile is, by its terms, applicable only the city of Mobile is, by its terms, applicable only to the city of Mobile is, by its terms are contact on the city of Mobile is, by its terms are contact on the city of Mobile is, by its terms are contact on the city of Mobile is, by its terms are contact on the city of Mobile is, by its terms are contact on the city of Mobile is, by its terms are contact on the city of Mobile is, by its terms are contact on the city of Mobile is, by its terms are contact on the city of Mobile is, by its terms are contact on the city of Mobile is, by its terms are contact on the city of Mobile is, by its terms are contact on the city of Mobile is, by its terms are contact on the city of Mobile is, by its terms a tract could be made for iron. In the mean time the article had risen largely in price, and what has been purchased cost the Company about \$65 per ton, delivered in Savannah. The Directors negotiated the city of Columbus bonds in payment for the iron, at ninety cents upon the dollar, which was the very best terms that could be obtained, and under the circumstances may be considered favorable. The one hundred and fifty thousand dollars thus subscribed by Columbus, instead of buying iron for 44 miles of the road, as contemplated, has only procured enough for twen-ty-two and a half miles.

A contract has been made with the Railroad Companies between this place and Savannah, to transport our rails at a very reasonable price, payable in the stock of our Company. A siderable portion has already been forwarded and has been transported across the river to our road.

The grading of the twenty-two and a half miles, to the Depot at Colbert, is nearly completed; the superstructure is ready, and a contract has been made with a responsible and energetic company, to put down the superstructure and the iron to have the twenty-two and a half miles finished by the 10th of October. If no untoward accident should occur to mar our prospects, we shall have that portion of our road open to trade and travel by the commencement of the cotton season. It is hoped and believed that the opening of the road, even for this short distance, will instil hope infuse confidence, excite the energy and stimulate the exertions of the people from one end of the line to the other, and induce them to come for-ward promptly and liberally to the aid of an enter-prise by which their convenience, comfort and interests are to be so largely promoted.

A portion of the line between Colbert and Union Springs is now being graded. The remaining sections are ready to be let, and the Board has authorized the Engineer to put them under con-

From the best estimate that can be made of the probable cost of the road between Girard and Union Springs, it will require about one hundred thousand dollars in cash to complete the grading and superstructure. It is the intention of the Board, at an early day, to make an effort to obtain additional subscriptions. It is confidently believed that the necessary sum can be raised, and in anticipation of success, the grading, as before stated, will be let out to contractors during the ensuing fall. As to the iron, for the thirty miles between the above points, the Board rely upon an additional subscription from the city of Columbus of one hundred and fifty thousand dollars. The City Council, last year, passed an ordinance in legal form, authorizing such a subscription; no action, however, has been had upon the subject since, and as the last Legislature of Georgia passed a law, making it necessary that all subscriptions of that city, over ten thousand dollars, should be submitted to a popular vote, it will be necessary to obtain the approval of the subscription by the voters of Columbus, before it can be made available to our Company. The Directors do not entertain any doubt but that the intelligent and public spirited citizens of Columbus will at a pro-per time, confirm this subscription. If that sub-scription shall be made, and we are not disappointed in obtaining the proposed amount of cash subscriptions, we may safely calculate upon run-ning our trains to Union Springs, 62 miles, by the fall of 1855,

ent. bonds. This subscription was made would, in our opinion, double the quantity of cot-the express provision that it should be ap-ton received at Columbus, all or nearly all, to the purchase of iron. At that time rail-of which would pass over the Muscogee, ron could be imported into the United States South Western and Central Bailroads to Savannah. The very large increase which our road will bring to the business of these roads, and to

> by its terms, applicable only to that part of the Road between Mobile and Greenville. A large amount of the individual subscriptions on the line below Union Springs, are in like manner applicable to particular portions of the Road west of that point. The subscriptions in grading, between Un-ion Springs and Mobile, amount nominally to one hundred and two miles, of which it is probable about one-third will not be available. There are also subscribed between the same points, fifty-two miles of cross ties, of which one-third will probably be lost. After a late trip, made by the President and one of the Directors with the Chief Engineer, up and down the whole line, and a careful enquiry into the condition of things, the conclusion is arrived at, that we may safely calculate upon having sixty-eight miles graded, and thirty-six miles of cross ties finished, for stock; leaving about one hundred and eight of grading, and one hundred and forty miles of cross ties, to be pro-vided for by the Company in some other way, together with the bridging, culverts and track laying for the whole distance. It is believed that the grading, bridging and superstructure of the whole road, from Union Springs to Mobile, can be let to responsible contractors, at reasonable prices, payresponsible contractors, at reasonable prices, pay-able one-third in cash, one-thirds in the bonds of the Company, and one-third in our stock. If such contracts can be made, there will be required about one hundred and seventy-five dollars in what are deemed good cash subscriptions, applicable to that portion of the road, leaving two hundred thousand dollars to be supplied. Every effort will be made to obtain this sum from the citizens of Mobile and the Counties adjacent to and through which the Road runs, and strong hopes are enter-tained that a sufficient amount will be obtained.

> The final location of the Road below Greenville having been completed, it is the intention of the Board, as soon as the profiles and estimates are made out, to let to contract that part of the line from Burnt Corn creek to Mobile, about eighty miles, during the coming fall, so as to have the work commenced by the first of January next, and finished during the next year. They hope, also, to have a portion, if not the whole, of the sections between Burnt Corn creek and Greenville, and between Greenville, and between Greenville, and the sections of the sections between Greenville, and the sections of the sections of the sections between Greenville, and the section of the sections of the sections of the sections of the sections of the section of the sect and between Greenville and Union Springs, in the process of grading during the next year. The Board feel confident that if an additional sum of three hundred thousand dollars cash subscriptions can be obtained, payable within the next three years, in annual installments, the whole road, from Girard to Mobile, may be completed and put into operation by the first of January 1858.

In addition to the amount required for grading, bridging, &c., as above stated, it will require about one million and a half dollars for iron, equipment, and other necessary expenditures. For this purpose, we shall have one million dollars Mobile six per cent, bonds and one hundred and fifty thousand dollars of bonds of the city of Columbus, leaving a deficiency of three hunded and fifty thousand dollars to be supplied. If the bonds of these cities can be negotiated for iron, without a great dis-count, it will be the policy of the Board to use them in that way. It is very doubtful, however, whether bonds bearing so low a rate of interest would command a fair price; and it will probably be better policy to issue the bonds of the company bearing eight per cent. for the requisite amount, hypothecating the city bonds, as collateral securointed in obtaining the proposed amount of cash abscriptions, we may safely calculate upon runding our trains to Union Springs, 52 miles, by the life our trains to Union Springs, 52 miles, by the life of the completion of our Road to Union Springs, mortgage upon the Road, would probably command a par for iron and equipment. It will be

the total cost of the road, renderately equipped upon the lines of long-loads, as with every parallel avenue for the exchange of products of widely so for business, at \$4,232,780, or about \$22,000 to the to an amount sufficient to cover one-third of the cost of construction, as heretofore suggested, which will not fall short of three hundred thousand dollars, and may be larger. In order to carry out this policy and meet any contengencies that may arise, it is respectfully suggested that you pass an order authorizing the Board to issue bonds to the extent of two millions, to be applied to the pur-poses indicated. The bonds issued for grading, &c., to be payable in not less than five, nor longer than ten years. Those issued for the purpose of iron &c., to have a time to run corresponding with the city bends pledged for their security.

No doubt is entertained by the Board, that the earnings of the Road, as it shall progress to completion, will not only pay all the interest accruing on bonds issued, and which the Company shall be called upon to pay, but aid materially in the construction of the work, and finally be ample to meet the principal sums as they fall due. By the rule adopted by the Board in the establishment of depot stations, a considerable subscription to the stock of the Company may be anticipated as the Road progresses, to be applied to construction or payment of interest.

The estimate of the probable earnings of the Road is believed, by the Board, not to be extravagant. For one hundred and fifty mile west of Girard, the Road runs through one of the most beautiful, healthy, and productive countries in the Southern States, capable, when taxed to a reasonable capacity, of trebling its present agricultural products, and greatly enlarging its present populatation. From the almost impassable nature of the wagon roads heretofore used in transporting cotton and other articles to Montgomery, and other points on the Alabama river, during the winter season this whole country has been comparatively locked out from market. The construction of the Mobile and Girard Railroad, affording the planters a speedy, safe and cheap conveyance of their products to the most favorable markets, will invite settlers from other quarters, fill up the country with a thriving and healthy population, and greatly enlarge the wealth and resources of the people. The country near Mobile, through which the road passes, although what is usually termed a pine barren, yet is not un productive in an agricultural point of view, while it is covered with a dense growth of pitch pine, capable of furnishing large quantities of lumber, and scarcely less important and desirable than the richer lands upon the east-

ern line of the Road.

The Mobile and Girard Railroad, in connection with the Mobile and New Orleans, (certainly to be built at an early day,) and the Roads east of Girard, now built and to be built to the northern cities, affords the quickest and cheapest avenue for the vast horde of travellers which must pass between the Atlantic States and cities, and the Gulf States and ports leading to the Pacific coast. Our Road, when completed, must form an important link in the great mail line from the northern cities to New Orleans and the South-west. — Through travel generally accompanies the United States mail, and we venture little in expressing the opinion, that in a few years our road will be one of the most important thoroughfares, both of through and way travel, in the Southern States.

To build a road of such length and importance promising such liberal returns for our labor and money, and conferring such important benefits upon the pablic, encourages us to renewed efforts and unwearied exertions to complete the magnificent enterprise which we have undertaken.

Ai! which is respectfully submitted.

ALFRED IVERSON, President.

Gallipolis, Jackson and Chillicothe Rail-

At the election for Directors of the Gallipolis Jackson and Chillicothe Railroad Company, the old Board was elected to-wit: Wm. H. Langley, Charles Henking, Simeon Nash, John Hutsinpiller, Robert Black, Isaac R. Calohan and John N.

of Irade, then offered the following resolutions

The period for holding the first meeting of the Shareholders of the Company having arrived, the Directors desire to place before them a full report of the progress of the undertaking since its forma-

The amalgamation of the several Companies now comprised under the title of the Grand Trunk Railway Company of Canada, was completed in July of last year; immediately afterwards the necessary steps were taken for issuing the share and debentures to the holders of the Provincial certificates of the A series of Grand Trunk Shares and by the conversion into Grand Trunk Shares of the paid up in full Shares of the St. Lawrence and Atlantic, the Quebec and Richmond, and the Toronto and Guelph Companies.

It may not be inopportune to state here that the system adopted and carried out, with reference to the preparation and issue of these documents, as well as to their registration and transfer, and to the payment of interest and dividends on them, is of the most complete and satisfactory character.

Immediately after the amalgamation, the necessary organization of the Company in the traffic department, under the control of Mr. S. P. Bidder, its General Manager, was effected. His report is attached hereto. The system of Audit of all re-ceipts from traffic was also brought into operation on the principle of the London Clearing Housethe experience of several years, acquired in English railways, demonstrating this as a complete and effective check on all payments on account of traffic. Its working on the section of railway between Portland and Montreal has shown the advantage of its adoption in this country. Arrangements have been made for its extension as the several sections of the Grand Trunk Railway are completed from time to time.

The St. Lawrence and Atlantic and Atlantic and St. Lawrence Railways, forming the line from Portland to Montreal, are 292 miles in length.— They were delivered to the Company in July, 1853, in a state unfit for working, and the locomo-tive and carriage stock was equally deficient. Engagements, however, had been entered into

which rendered it necessary to keep the line open so as to get through one train a day during the winter.

Notwithstanding the adverse circumstances under which the line was worked, the traffic has gradually increased from £1644 3s 9d Stg., which it was on the week ending the 7th January last, to £3,627 1s 9d for the last week of the half year ending 30th ultimo. The total receipts for the half year were £73,112 8s 2d Stg. To earn that sum an expenditure of £58,122 14s 0d was in-

This large amount for working expenses will naturally attract attention, but it has to be remembered that the railway was kept partially open to fulfil the engagements already referred to, as well at the solicitation of flour and lumber merchants, who had made contracts in the belief and understanding that the railway from Montreal to Portland would be in effective working order during the winter. It must also be borne in mind that the last winter was the severest known in Canada East for several years, and that, in addition to the short supply of engines and other rolling stock, there were neither work shops nor tools for the necessary repairs. The half year just expired, therefore, forms no criterion for the future as regards working expenses.

The line is now in good working order. The ballasting throughout its entire extent is nearly completed. The number of engines has been augmented to 64, and more than the ordinary proportion of them is in complete and effective working order. The necessary workshops and tools have been provided, and every arrangement has been made, or is in progress, for rendering the line capable of conveying as large an amount of traffic as can be carried on a single line of railway, at or about the ordinary rates of working expen-

ting on the books of the Company, June 20th,

necessary also, to issue the bonds of the Chinpany The Grand Trank Stationary Co. of Canada, ses. Since the 1st instant, "Through" trains to an amount sufficient to cover one-third of the complish the distance each way between Montre-al and Portland in 11; hours, and the number of passengers carried by them would have been greatly in excess of their present amount, had not the unfortunate prevalence of cholera checked the immense travel from the United States that usually flows into Canada at this season of the year. The ordinary trade of Montreal has like-wise been diminished to a considerable extent in consequence of the prevalence of this dis-

> Although the sea service of the Canadian Steam-Packet Company was not carried on in an effective manner during the past winter, the experience acquired by merchants and others has convinced them of the advantages of the communication; and there is no doubt that if a weekly passage were established between England and Canada, and that the sea service were performed with average regularity in vessels of large tonnage, the receipts on the line from Portland to Montreal alone would be increased between £1,500 and £2,000 a-week from this source.

> Up to the date of the last advices from England. the 6th instant, £1,848,845 sterling had been paid on account of the A series of shares of the Grand Trunk Company and the debentures to which such shares are entitled.

> £490,885 sterling have been paid in advance of future calls, a satisfactory proof of the confidence entertained by the English Shareholders of the Company as an investment.

> It is intended that the next call of £2 10s. per share and of £10 on each class of debentures be made in October next, to be followed by calls for the same amounts in February and June,

> Owing to the prospects of a general war in Europe, and the consequent probable depression of all securities, the Directors deemed it prudent, during the autumn of last year, to apply to the Provincial Government to grant, under the Guarantee Act 14 & 15 Vic. Cap. 73 Section 22, the same privileges with reference to the Province Bonds, to be issued to this Company, as had been afforded to other Railroad Companies in Canada entitled to the guarantee.

> The Government assented to this proposal, and transmitted to Messrs. Baring & Glyn, the Agents of the Province in London, £905,700 of debentures, with instructions that they be issued to such Shareholders of the Grand Trunk Railroad Company as paid 40 per cent on their A shares, and in full on the Province Bonds to which they are entitled.

> The amount paid in full on these debentures to the 6th instant, is £492,300 sterling. The works completed by the contractors to the 14th instant (at the rate of 40 per cent on the works to which the debentures apply) have entitled the Company to £311,000, and a further amount of £317,500 is held on account of those sections of the line hitherto known as the St. Lawrence and Atlantic and the Quebec and Richmond Railways. It therefore, appears that the Company have not yet re-ceived from the Government the amount of Provincial aid to which it is entitled. The debentures are, however, in the hands Messrs. Baring & Glyn for disposal to the Shareholders of Grand Trunk Company under the conditions before stated.

> Should a larger sum be received by Messrs. Baring & Glyn in payment of these Deben ures, than the amount to which the Company is entitled on works executed, it will be held by these gentlemen and will be only handed over by them to the Company, as it becomes entitled thereto from time to time by order of the Government of Cana-

A similar arrangement will be carried into effect with the B series of these Debentures as the works progress. The amount of this issue will be £905,-

In accordance with the arrangement announced by the London Board on the 6th of May last, the Directors have entered into the following arrange-

tiefe traffic over the Bridge, as it must be obviou

500

ments with reference to the progress of the work:

—That they be actively proceeded with from St.

Thomas, 40 miles below Quebec, [to join the Quebec and Richmond line,] and between Montreal, Kingston, Toronto, Guelph and Stratford, so that the line shall be opened from Montreal to Pres-cott, and between Toronto and Stratford, a distance of 210 miles, in the autumn of next year and the other sections giving a total length of 867 miles in October, 1856.

The works postponed under this arrangement comprehend 245 miles, and an outlay of about two

millions sterling.

The capital accounts submitted herewith, show that the expenditure under that head to the 30th ultimo, has been £1,860,265 5s. 6d. sterling, of which £237,793 sterling was on account of works on the line between Montreal and Portland, providing it with additional locomotive stock, workshops, &c., £589,425 for works and materials supplied between Montreal and Toronto, £363,396 19s., between Toronto and St. Mary's £537,350 between Quebed and Richmond, £63,172 for the line East of Quebec, and £57,020 13s. 9d., for the Victoria Bridge.

The Directors refer with satisfaction to the full and detailed report of Mr. A. M. Ross, the Company's Chief Engineer, herewith subjoined, on the progress of the various works now in the course of construction. It cannot fail to be read by the

Shareholders with the deepest interest.

On the subject of the Victoria Bridge the Directors desire to state that its necessity and advan-

tage become daily more apparent.

The explicit Report of Mr. Robert Stevenson, recently published, has convineed all persons in-terested in the subject, in an engineering point of view, of its practicability and propriety, and the perusal of Mr. Ross's Report will show the successful manner in which the works have progressed to the present time.-Viewed in relation to its commercial importance the Directors are more than ever impressed that, without it, the large and comprehensive traffic system involved in the construction of the Railway, could only be partially and by comparison ineffectually carried out at a very great cost. Montreal is the terminal point of the Ocean Navigation connected with the St. Lawrence on the one side, and of the great Cana-dian and American Lakes extending 2,000 miles into the heart of the Continent on the other. It is also the centre from which lines of Railway at present radiate to Portland, Boston, and New York, Ottawa and other rich, though as yet, only partially developed districts, of Canada. Without the Vic-toria Bridge the Grand Trunk Railway would, in fact, be two Railways involving the cost and expensive working of two separate plans, whereas by its construction, under the perfect system of management which the Directors believe they will be able to introduce, not only will the immense traffic both of persons and of merchandize which now flows through Montreal continue with the natural expansion consequent upon the opening of Railways in surrounding districts; but it is the firm conviction of the Board that by means of the Bridge a better, more rapid, and cheaper communication will be afforded for the magnificent district of Western Canada and of the North Western States of America, including Michigan, Illinois Wisconsin, Minesota, Iowa, &c., to the Atlantic Sea-board, and for the supply of these districts with imported goods than by any other route on this Continent. With reference to the cost, it should be observed that if its amount be distributed over the Grand Trunk Line, it will add about £1,200 a mile to the expense of construction, making the total cost of the Railway (to be finished in every respect equal to a first class English Railway about, £9,500 a-mile, which amount includes the necessary Locomotives and other Rolling Stock for working the Line. In addition, the lines of Railway, independent of this Company, which converge at Montreal are about 1,600 miles

in length.

All these will pay toll to the Company to pas their traffic over the Bridge, as it must be obviou

Company and the Great Western Railway Company for each to suspend until 1856, such portions of the respective lines as excited mutual jealousy, has been confirmed by the Canada Board of that Company. In consequence the works on the Great Western Line from London to Sarnia, and this Company's Sarnia Extension have been defer-

The Board has every reason to hope that before the expiration of the present agreement, terms of a friendly alliance will, under the decision of Mr. Stephenson, be arranged between the two companies, by which all the evil incident to any apprehended competition will be avoided.

The election of three Shareholders of the Company as auditors, is likewise required by the terms

of the amalgamation agreement.

Certain shares in the Quebec and Richmond Railway are now in arrears for calls. A resolution will be submitted to the meeting to empower the Directors to forfeit such shares two months after a notice has been published in the "Canada Ga-

President.

Quebec, 27th July, 1854.

Atlantic and St. Lawrence Railroad.

The following is the report of the Directors of the Atlantic and St. Lawrence Railroad submitted at a meeting of the stockholders held at Portland at the first instant.

To the Stockholders of the Atlantic & St. Lawrence Railroad Company :

The Directors submit the following Report for

the year ending June 30th, 1854:

During the past year the road has been run by the Lessees, in connection with their line in Ca-

They have retained in their service most of the former employees of this Company, and in other respects, their management of the road has been generally satisfactory and successful.

The road itself has been very much improved, and much more extensive expenditures have been made, for gravelling, wood sheds, water stations, and coverings of bridges, than we could have made with our limited means.

At Fish Point, in Portland, a great improvement has been made in reducing the curve round the hill, and in grading for additional tracks; and additional depot grounds have been made by filling the flats.—The foundations are laid for a new passenger building at the foot of India street, so that on its completion, the present building may be used entirely for freighting business.

All the obligations entered into with this Company by the Lessees, under the contract of lease. been punctually and satisfactorily performed.

The interest on our funded debt, dividends to shareholders, and amount due to the Sinking Fund.

have been promptly paid.

The floating debt of this Company has been paid, as it became due, by the Lessees, and our bonds, on twenty-five years, to the amount of four hundred and eighty-four thousand dollars have been issued therefor, in conformity to the provisions of the contract of lease.

The amount of floating debt remaining unpaid June 30th, 1854, is \$89,518 34, which includes the amount of interest scrip due 1st of August

The Lessees have agreed upon terms of settlement with Messrs. Wood, Black & Co. in relation to the amount due under the contract for building the road, but this settlement has not been acted on and recognized by the Directors, some disputed land claims remaining to be adjusted before a final settlement with them can be made.

The whole number of shares of capital stock

standing on the books of the Company, June 30th,

that it will be cheaper than to ferry the river by was sixteen thousand nine hundred twenty-two steamboats in summer or by sleighs in winter.

The Directors are happy to announce that the agreement entered into in London between this

The amount of stock to be issued to Messrs. making sixteen hundred ninety-two thousand two hundred dollars.

Wood, Black & Co. on final completion and settle ment of their contract will make an aggregate of shares, issued and to be issued, 18,091 shares, amounting to \$1,809,100 00.

The funded debt of the Company is as follows

City Bonds loaned to the Company for which it is liable \$2,000,000 00

Bonds of the Company dated April 1, 1851, and redeemable in fifteen

years.....Bonds of the Company dated Nov. 980,300 00

1st,1853, on twenty-five years, payable in Sterling Currency 484,000 00

Making an aggregate of funded

The sinking Fund, provided for in acts authorizing the city of Portland to loan its credits, amounted on the 30th June to \$119,315 40.

The Report of the Commissioners of this fund

hereto annexed.

The business upon the road has steadily increased during the year, requiring large additions to the equipment and more frequent freight trains, and we have no doubt the increase will continue till the business is equal to the capacity of the road to accommodate.

The Parliament of Canada is expected to meet for business on the first of September next, when the Grand Trunk Railway Company will doubtless be fully empowered to take the lease of this road, and make the necessary contract therefor in its own name

All which is respectfully submitted.

In behalf of the Directors:

JOSIAH S. LITTLE, President.

Office of At. & St. L. R. R. Co. Portland, July 25th, 1854;

The Commissioners' Report states that the aggregate amount of the two funds is \$119,315 40,

Fund of 1848......\$85,525 93 Fund of 1850 33,789 47

\$119,315 40

interest..... 15,565 40

\$119,315 40 The present investments of both funds are as follows

Iuvested in City Scrip of the Railroad

95 40

\$119,315 40

We copy from the State of Maine the following notice of the meeting.

After the reading of the report, Mr. Little made a verbal explanation as to the reasons of the de-lay in Canada in perfecting the lease. He then introduced to the meeting Hon. A. T. Galt, who entered into a brief explanation of the state of railway matters in Canada, fully comparing and sustaining the report of the Directors, and the state-ments of Mr. Little,

Mr. Galt said the Parliament of Canada would not probably meet as early as September 1st, but at some time during that month, and that within a month or six weeks thereafter the needful authority would be granted to the Grand Trunk Railway to accept the lease of the Portland line.

The several reports were then unanimously adadopted.

John B. Brown, Esq., President of the Board of Trade, then offered the following resolutions:

Whereas, the experience of the past year has demonstrated the advantages of Portland harbor, as the steamship terminus for the trade between Canada and Europe, and has also shown the great value and importance of a regular line of steam ers from Liverpool to this port—now sufficiently made known to warrant an annual subsidy from the city of Portland for the purpose of securing such a line upon a permanent basis—therefore

Resolved, that the Directors of the Atlantic & St. Lawrence Railroad Company be advised to make application to the city of Portland, request-ing the city government to render such aid as may

be necessary to secure such a result. Resolved, Further, that the Directors, at their discretion, be requested to invite the authorities of the State, the several railway companies, and other parties interested, to join in such an under-

Mr. Galt said, as a stockholder in this company he took great pleasure in seconding the resolu-tions, and he desired to offer a few remarks in their support, feeling as aninhabitant of Canada, the most lively interest in the subject. No one could question the correctness of the preamble to the motion, that steam communication between Portland and Europe was an object of the highest importance: and those who had witnessed the advantages to this city of the arrival of the steamships last winter, could not fail to appreciate the still greater benefits that would flow from their continuing to ply to Portland during the entire

Mr. Galt stated his belief that the Grand Trunk Railway would be disposed to give every support in their power to a constant line of steamships to Portland, but added that this city and its commercial inhabitants were the parties who would derive the most benefit, and therefore it was quite within the province of the shareholders in the Atlantic road to urge their Directors to bring the subject before the proper authorities. He said no one could look around and see the improvements in this city without feeling that their onward march demanded an uninterrupted communication with Europe. The population of Canada, now exceeding two millions, must have a regular channel ceeding two millions, must have a regular channel for their business, and he did not believe that it could be found better than by the Railway with Portland for its terminus. It must be manifest to every business man, that the progress of Portland depended upon its facilities for despatching business; they could not expect the products of the west to come here, unless there were the means of west to come here, unless there were the means on sending them away; nor could produce be sent here with economy, if no back freight were provid-ed for the railway, as the freight one way had to pay the cost of returning the empty cars. To give full affect to the benefit of the railway, Port-

He did not consider this as a question which ought to be regarded by the Atlantic stockholders with indifference, because they had no longer an interest in the future prosperity of their road. As their original design in building their road was to benefit their State and city, and these objects remained equally important whether they received six or ten per cent, and he did not doubt that the same public spirit and unanimity would be shown in supporting the steamship project which had marked all their proceedings.

land must be made a place of import as well as of export,—and unless this were done, the anticipations of advantages from the railway west, must

be more or less disappointed,

to impress on the public here the importance of taking prompt measures to secure a constant steam communication—and especially to point out that though the object was undoubtedly, in a favorable position to be attained, still it would require a greater effort than had already been made by the city and Railroad Company. Inasmuch as the Canadian government could not be expected to devote the same aid to the importance of the importance of miles from Hazel street, on the route which is ready for rolling stock, averages in general only \$18,000 per mile, being only about 1/2 as much as mow located in every part, which is under contract, the average from St. Louis to the Indian Ford.

That the length and cost of the Missouri portion of the St Louis, Memphis, and New Orleans Railroad Company. Inasmuch as the Canadian government could not be expected to devote the same aid to the contractors for work done of the St Louis, Memphis, and New Orleans Railroad Company. Inasmuch as the Canadian government could not be expected to devote the same aid to the contractors for work done of the St Louis, Memphis, and New Orleans Railroad Company. Inasmuch as the Canadian government could not be expected to devote the same aid to the contractors for work done of the St Louis, Memphis, and New Orleans Railroad Company. Inasmuch as the Canadian government could not be expected to devote the same aid to the contractors for work done of the St Louis, Memphis, and New Orleans Railroad Company. Inasmuch as the Canadian government could not be expected to devote the same aid to the contractors for work done of the Swamp District near Titidian to the contractors for work done of the Swamp District near Titidian to the contractors for work done of the Swamp District near Titidian to the contractors for work done of the Swamp District near Titidian to the contractors for work done of the Swamp District near Titidian to the contractors for work done of the Swamp District near Titidian to the contractors for work done of the Swamp District nea the Canadian government could not be expected this extension was found to be far more practica-to devote the same aid to the line to Portland as ble than its warmest friends anticipated, the grades to devote the same aid to the line to Portland as to the St. Lawrence, and the differences must be more or less made up by others, who would * See Western Journal & Civilian, vol. 9, page most benefit by the change. Undoubtedly, those 36, October, 1852.

were the inhabitants of Portland, and he trusted they would come forward with alacrity in urging on their authorities the adoption of such a course as would prove of lasting benefit, as well as to the city of Portland as to the State of Maine, and to to the whole province of Canada.

Mr. Galt's remarks were received with great

The resolutions were unanimously adopted. The following gentlemen were chosen for the

Board of Directors for the current year:

J. S. Little, Wm. P. Preble, A. T. Galt, Phineas
Barnes, St. John Smith, John A. Poor, J. B.
Brown, A. W. H. Clapp, Samuel Jordan, Solomon
H. Chandler, George F. Shepley, Thomas Crocker, Thomas Hammond.

St Louis, Memphis and New Orleans R. R.

When the Mississippi Valley Railroad, to connect the city of New Orleans with the Falls of St. Anthony, was projected, in October, 1852, we presented the claims of three routes, south of Missouri, viz: the Little Rock, the Memphis, and the Helena route.*

The country from Missouri to Memphis, and from Missouri to Helena, had been unexplored by railroad engineers, and a merely preliminary survey had been made by the government of the U.S. from St. Louis to Fulton via Little Rock,

We, however, obtained information of the peculiarity of Crowley's Ridge extending from Misson ri to Helena, 150 miles, with an almost unbroken firm and high surface on its side above the swamp and overflowed lands, with which it was surrounded. Helena was also in a nearly direct line from St Louis to New Orleans. The Arkansas country on each side of Crowley's Ridge was mostly abandoned unreclaimed and overflowed lands. Helenaroute was considered shortest, cheapest, and was therefore preferred.

The Memphis route, it was thought, might stablished by the construction of that portion of the Memphis and Little Rock railroad from the Mississippi to the St. Francis, 40 miles across the swamp; and although it was considered impracti-cable to build a road from Old Indian Ford to Memphis through the lakes, swamps, &c., 140 miles, on the east side of the St. Francis; yet it was then declared that "Memphis might hold out inducements to make its routes preferable" to the Helena route.

In regard to the Little Rock route, it was considered that "advantages might be gained by and from Little Rock and the country along its route, to produce a great preponderance in its favor," although the Little Rock route was estimated 95 miles longer than the Memphis route. The Little Rock route has been earnestly and uniformly advocated by us; and although violently opposed by a strong political party in Arkansas; as a "visi-onary scheme too wild for a respectable manaic," and "worse than a man's trying to held himself ont at arm's length," this scheme has become more respectable than its adversaries, and stronger than their strength, and is progressing with reasonable speed, by the impetus given to it by its frien s, combined by its own intrinsic merits.

We will now present the claims of the Memphis route, together with newly discovered evidence in its favor, hoping soon to obtain yet further exi-dence of a commercial character, which will place

this route on a commanding position.

The final survey of the Railroad from St. Louis

being easier, and the cost averaging \$10,000 mile less than that of the portion between Mountain and St. Louis, whereas, from the estima tes of Barney's survey, it was apprehended that the relative cost would be much greater below than above the Mountain. Considering the mountainous character of the country, this line of 70 miles from the Mountain to the Ford is remarkably straight. It is the only good line that could be obtained south of the Mountain towards Arkansas, and further-more is in the direction of Memphis.

The Indian Ford may become a fixed point in the Mississippi Valley Railroad, which ever way the road may be extended towards the South, and the road may be extended towards the South, and this point, though on the verge of the Swamp Dis-trict, is destined soon to rise and become a point of great distinction. Therefore it may be well to designate it now with reasonable distinctness: Old Indian Ford is on the St. Francis river, near, though south of the junction of Wayne, Butler and Stoddard counties. It is equidistant from Cairo, Hickman, and the Arkansas line in Grand Prairie, Dunklin county, being about 60 miles on an air line from each. It is also nearly equidis-tant from New Madrid and from Point Pleasant on an air line, being about 45 miles from each; and it is just 30 miles from Arkansas line in Ripley county, where the best route is found along the northwestern border of the Swamp Region in the direction of Little Rock and Fulton in Arkansas. Three routes have already been surveyed by the Iron Mountain Co. radiating from Old ed by the Iron Mountain Co. radiating from Old Indian Ford, one to Cairo, one to Arkansas line in Ripley county, and one to New Madrid, the lasmentioned to Point Pleasant. A great variety of other experimental surveys were made throughout the Swamp Region; and it is believed from indications discovered in these discursive experimental surveys, that one of the most practicable routes from Old Indian Ford towards New Orleans would be almost in a straight line in that direcwould be almost in a straight line in that direction; that is, on the east side of the St. Francis river through Stoddard and Dunklin counties the Arkansas line, in Grand Prairie, which is also in a direct line toward Memphis.

A powerful argument in behalf of this route in Missouri-might be built up, based on the reasonable presumption, that a railroad bed, constructed along the eastern shore of the St. Francis in Stodalong the eastern shore of the St. Francis in Stod-dard and Dunklin Counties, would be the best em-bankment to prevent the occasional overflow of this river in these counties, and further that such an embankment may be essential to reclaim the swamp lands in these and the adjoining counties of New Madrid and Pemisco, as also of counties of New Madrid and Pemisco, as also of a large part of the country in Arkansas east of the St. Francis. This branch of this subject is well worthy the careful consideration of the Swamp Land Commissioners of Arkansas, as also of the above mentioned swamp counties of Missouri. That the probable feasibility of this route may be still more highly appreciated, and the ignorant prejudice against building a railroad through the

Swamp District may be more thoroughly advised and fairly enlightened, it is proper to state, and it should not be forgotten that while the cost of the construction of the railroad from St. Louis to the Iron Mountain, ready for rolling stock, averages \$40,000 per mile along its 80 miles, and that while the cost of construction of railroads from the Iron Mountain to Indian Ford, ready for rolling stock, averages \$30,000 per mile along its 70 miles, the cost of construction of railroads from Indian Ford

kansas line in Grand Prairie, Dunklin county, 60 miles on an air line and as the average devition from an air line may be fairly represent by one-sixth, that the length of Indian Ford a Grand Prairie line is 70 miles, and that the cost construction of this link, ready for rolling stock

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placing the links in tabular form w The length of the St. Louis and	heno extinier
IronMountain link	80 miles
Iron Mountain and Indian Ford. Indian Ford and Grand Prairie	70 "
link	70 "
Total length of the Missouri por-	all sides esona.
tion	220 miles
Cost of 1st division 80 miles, at	- Louis offi
\$40,400 per mile Cost of 2d division, 70 miles, at	\$3,200,000
\$30,000 per mile	2,100,000
Cost of 3d division 70 miles, at \$18,000 per mile	1,260,000
contributed in the world stand from Co	\$6,560,000
By adding cost of rolling stock, together with buildings and	Land His form
fixtures for same at the rate of \$4,000 per mile, 220 miles.	880,000
We find total costin Mo. in run-	## 440 000

ing order Touching the Arkansas portion of the St. Louis and Memphis Railroad, on the route above indicated, as it may become a link of vast importance in the Mississippi Valley Railroad, and as it was originally and almost universally thought to be utterly impracticable, it is but justice to Mr. W. D. Ferguson. of Arkansas, to fix the fact that he is the man who first projected and earnestly advocated this route. One year ago from this date at the Memphis Convention in June, 1853, in conversation with the author of this article, he presented the claims of this route, and urged them with the light of his experience on the ground, and with the warmth of his enthusiasm in the prospect. Not one word could we then hear in its

favor excepting from him.

Since then but little has been said or done or this subject until the first day of March, 1854, when G W. Underhill, of Arkansas, E. H. Porter, of Tennessee, and L. M. Kennett, of Missouri, with their associates in each of said States formed themselves into a corporation under the general law of the State of Arkansas by the name of Memphis and St. Louis Railroad Company, for the purpose of building a railroad through Arkansas from a point opposite or near Memphis, "on or near a direct line between the same and the city of St. Louis, Missouri, and running thence as nearly as said company may deem it practica-ble in the direction of St. Louis, so as to reach a point on or connect with the St. Louis and Iron Mountain Railroad, or any other railroad or point thereon, in that general direction.'

The charter was filed in the office of the Secre tary of State of the State of Arkansas on the 6th day of March, 1854, and on the 18th day of the same month the Board of Commissioners of said company met and organized by the election of Ethel H. Porter, President of the Company, and

J. T. Swayne, Secretary.

As the legal provision is thus obtained for building the Arkansas link of this road, we will now proceed to inquire into the probable length and

cost of the same.

For the sake of avoiding circumlocution, we will designate the point on the boundary line between Missouri and Arkansas east of the St. Francis river, where this railroad will probably cross. by the name which is given to the strip of country there extending both into Missouri and Arkansas thatis Grand Prarie, although the village of Grande

Prairie is not exactly at this point.

From this point to Memphis, the distance on an air line is about 60 miles, being the same distance as from this point to Indian Ford. By the reports gathered from the experimental surveys of the Grand Prairie seems to be about the same as that

ine distance is also the same, therefore it is reasonable to make the same allowance for the length to Memphis, as from Indian Ford to Grand Prairie.

souri portion, to wit: \$4,000 per mile, 70 miles, it Prairie and Memphis road in running

And we find the total cost of the roadfrom St. Louis to Memphis - \$8,980,000

The total distance from St. Louis to Memphis by this route according to the above estimates is 290 miles, which, with a speed on the road of 30 miles an hour, brings St. Louis and Memphis within ten hours distance of each other.

Having ascertained the probable length and ost of the St. Louis and Memphis Railroad, we will proceed to an examination of the Memphis

New Orleans road.

The distance from Memphis to New Orleans on an air line is 342 miles. These two points are connected by a road in process of construction composed of three links, which are the "New Orleans, Jackson and Great Northern Railroad," reaching from New Orleans to Canton, the Mississippi Cenral Railroad," reaching from Canton to Grenada, Miss., and the "Mississippi and Tennessee Rail-road," reaching from Grenada to Memphis.

The distance from New Orleans to 175 miles.

Total distance by deviating links, do...346 miles. without deviating, do...342

Amount of deviation by the links, do... 4 miles.

By allowing on the sum total a deviation of 44 miles from the air line distance of the links, .346

The length of the practicable route from Memphis to New Orleans is 390 miles.

In order to show the progress and prospects of this combined enterprise in Louisiana, Mississippi and Tennessee, we will quote a paragraph from the memorial of the Mississippi and Tennessee Railroad Company to the St. Louis and Iron Mountain Railroad Company, dated 18th March, 1854:

"The greater portion of this route is already provided for. From New Orleans to the Mississippi State line the "Great Northern and Jackson road" is nearly completed, and will soon be finished all the way to Canton, Miss.; -thence the "Mississippi Central road" to Holly Springs passing Grenada, Mi., is under contract to be completed in $2\frac{1}{2}$ years. From Grenada our road, the "Mississippi and Tennessee" completes the line to Memphis; and the means at our command warrant us in the confident expectation of its early consum mation.

It will thus be seen that the southern and larger portion of the St. Louis, Memphis and New Orleans Railroad is rapidly progressing with brilliant prospects of entire completion long before the Memphis and St. Louis portion can be done, ac-

cording to present indications.

But the presentation of these facts should stimulate the public mind with renewed activity in behalf of the St. Louis and Iron Mountain Railroad, that while this work is being built to the from Mountain Rrilroad Company throughout validations of the Swamp District, and from the rious portions of the Swamp District, and from the rious portions of the Swamp District, and from the rious portions of the Swamp District, and from the rious portions of the Swamp District, and from the rious portions of the Swamp Land grant, and thereupon the Company facts stated by Mr. Ferguson, of Arkansas, the general character of the country from Indian Ford to Missouri may be applied to its construction, and own credit, which will then be firmly established

rom Grand Prairie to Memphis, and as the air ceeds remaining a school fund vested in the sto of the railroad company. This is doubtless the best thing that could be done with a large portion and cost of a practicable route from Grand Prairie of the swamp lands, both in Missouri and Arkansas; and it may be that half enough could be rea-Calculating then on this hypothesis, the length lized from these lands in Missouri and Arkansas of Grand Prairie and Memphis link is 70 miles, together to build the road from Indian Ford and the cost of construction of the same, ready to Memphis, 140 miles, the amount necessary to for rolling stock, is \$1,260,000. Calculating the cost of rolling stock together with buildings and fixtures for same at the rate estimated for the Missouri and a proposed the same at the rate estimated for the Missouri and a proposed the same at the rate estimated for the Missouri and Arkansas and it may be that and it may be read in the may be read in th arousing a spirit in Congress in behalf of a grant is \$280,000 making the total cost of the Grand of lands for the Mississippi Valley Railroad, the St. Louis Convention having sent them a memorial on this subject in December, 1852, and the Memphis convention having endorsed the memorial in Louis and Iron Mountain road to June, 1853. This grant of land by Congress Grand Prairie in running order......7,440,000 should be made liberal enough to meet one-half the cost of building this road from St. Louis to Indian Ford, 150 miles. Then, the length of this road being the same from St. Louis to Arkansas, as the length of the North Missouri Railroad from St. Louis to Iowa, each one being by a singular coincidence just 220 miles, and as the cost of construction of the Iron Mountain Railroad is also equal to that of the North Missouri Railroad, and its value to the State also fully equal, it therefore follows that an equal amount of State credit should be granted to each. But the North Missouri Railroad has received......\$2,000,000 while the Iron Mountain Railroad has

received only Leaving the claim of the Iron Mountain

Railroad for......\$1,250,000 of State credit, which it is but just and reasonable to suppose will be allowed by the Legislature as soon as it convenes.

Let then this swamp land grant, this Mississippi Valley Railroad grant, and this grant of \$1,250,000 State credit be gained, while the contractors are building the road from St. Louis to the Iron Mountain, then means and spirit enough will be realized to drive this work on with energy to Memphis.

The people of St. Louis have already acted with noble liberality towards their railroad enterprizes. They have given \$2,805,000 to the Pacific Railroad, and more than \$2,700,000 to the Mississippi Valley Railroad, about one-half of the last sum to the North Missouri portion, and the other half to the Iron Mountain portion, making the amount given by the city, county and private subscriptions of St. Louis to these railroads over \$5,500,000. Besides, the people of St. Louis have given liberal aid to the railroads in Illinois, and all these works are progressing in every direction. And although the people of St. Louis have raised these means and shown this spirit, they would be ready and willing in case of an emergency to raise and show more. But, for what they have already done, they manifestly deserve the applause of the whole country, from the lakes to the Gulf, from the Atlantic to the Pacific, and should, at the earliest possible moment, receive generous assistance from the State and National Governments, worthy

of the magnanimity they have displayed.

The means of the St. Louis and Iron Mountain Railroad Company are as follows, to wit:

Subscription of the city of St. Louis... \$500,000 ", ", county of St. Louis 500,000 Other corporate and private subscrip-

500,000

\$1,500,000 To this add State credit granted

Total amount of means at command. \$2,250,000 And to this add the amount of State credit, which, as above shown, may

be reasonably anticipated 1,250,000

and then we realize the amount of \$3,500,000 enough to complete the Iron Mountain. To this thereby to their own reclamation; their nett pro- on a high and commanding position, to build up

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dispatch and ease

When this is done, the railroad connection from New Orleans to St. Louis will be complete, while at the same time the North Missouri Railroad Company together with the Iowa and Minnesota interests will be extending this connection to the Falls of St. Anthony, reducing the distance from New Orleans to the Falls by railroad to the same number of miles, New Orleans is from St. Louis, by the river, to wit: 1,200 miles.—Western St. Louis Journal.

Journal of Railroad Law.

OVER-ISSUES OF STOCK.

The legal consequences of the late over-issues of railroad stock are still earnestly discussed.

On one side it is argued as follows:

If the Transfer Agent of a Company fraudulently issues stock beyond the amount authorized by law, he thereby wilfully abandons the line of his duty, and by that very act ceases to be the agent of the company which he had previously served, and the stock certificates which he puts forth are wholly spurious and void as would be those of any forger who was entirely a stranger to the company in question. Such so-called stock certificates are not the certificates of the Company. They did not emanate from an authorized agent of the Company. The stock of the Company having, by an act of the Legislature, been limited to a fixed amount, common prudence required that parties purchasing stock should inquire whether the shares offered to them were genuine or spurious. For an Act of Legislature is notice to the public, in relation to the provisions it contains.

There is a broad distinction between mere carelessness on the part of an agent, and willful fraud. A company in appointing agents is bound to select the history and origin of certificates, and that with those whom they have good reason to believe fully much time and labor. competent to discharge their appropriate duties. If such agent proves to be unskillful or negligent, agents acts, when the latter absolutely renounces and consequently damages another, the principal his agency, and perpetrates a wilful wrong, yet is liable to the party damnified. The agent stands when the agent acts within what the public have a in the place of the principal. The damage done right to believe the scope of his legitimate authority, by an unskillful or negligent agent, is virtually and in so doing defrauds an innocent third party, done by the principal who appointed him. But the principal is responsible to the sufferer, for it of their 7 per cent. bonds to their own stockholdforehand with reasonable certainty his proposed the unfaithful agent was appointed. And if a agent's qualifications in respect to prudence and transfer agent has been for a long time practising thereby subjecting himself to the penalties which the law inflicts upon all wrong-doers. The principal is not implicated in the hidden criminality of his agent, nor in the absence of express Legislation, is he liable for the pecuniary damage flowing from crime which human vigilance can only very partially prevent. In fine, if a principal in choosing agents, selects those who are fully competent and prudent and unblemished in regard to moral reputation, then the duty of the principal so far as this matter is concerned is done. Nothing

of those having dealings with such agents.

In regard to the enormous amounts of over-issued New York and New Haven stock, which were offered for sale by a late Transfer Agent, they sell what purported to be stock certificates, they should of themselves have awakened the suspicions of buyers. Those who bought such stock, demnity, from the principal whom those agents should have first ascertained whether it was profess to represent. spurious or genuine. And not having done so they should suffer the consequences of their own Bank of Kentucky, reported in Parson's Solvet rashness.

But on the other hand it is urged, that when a Company declares an individual to be the Transfer sanctioning whatever acts he performs under color of his office. If A then is the agent of a Company for the purpose of transferring its stock, it follows that whatever stock he transfers, be it genuine or not, is virtually transferred by the Company which appointed him, and whatever money was received therefor was virtually received by the Company. While dealing with a bona fide purchaser of stock, the Transfer Agent is to all intents and purposes, the Company, and the Company cannot repudiate his acts to the prejudice of innocent third parties. The Transfer Agent may, it is true, exceed his authority so far as the Company is concerned, but strangers are not thereby of necessity prejudiced. For the Company having once accredited the Transfer Agent to the world are responsible for the consequences of such act, however disastrous to themselves. Purchasers cannot scrutinize the acts of Transfer Agents, for the books of Stock Companies are closed as to them. And, indeed, only professional accountants can ordinarily trace

Although a principal may not be liable for his although a principal may be able to ascertain be- was through the principal's instrumentality that ers and other capitalists of the Tennessee Valley ability, how can he gauge and test the morality of frauds which might have been checked by due such agent? Human nature is mutable and frail, supervision and scrutiny on the part of the Direc- bia and sometimes shoots madly from its appointed tors, the Company is liable for such negligence of orbit under the influence of peculiar temptations. such Directors, whom they appointed mainly for Few men have sounded the depths of their own the purpose of watching their subordinate officers. hearts, much less those of others. A principal It cannot be admitted that a Company and the therefore only guarantees that his agent shall be purchasers of spurious stock issued by its officers amply intelligent and discreet for the execution of are equally innocent, The Company enabled the his trust. He does not engage that the agent may officer to do the wrong. Accordingly if the Cashnot possibly abandon his trust and rush into crime, ier of a Bank, corruptly issues a certificate in favor of a party having no funds in Bank, and this certificate comes into the hands of an innocent purchaser, the bank is liable for the amount. And chaser, the bank is liable for the amount. And less about land, negroes and cotton bales, and the same is true of Bank notes issued over and they will soon find themselves and their country above the amount limited by laws. It is true that a principal is not generally presumed to assent to any wilful wrong committed by his agent, aside from his official duties. But he is presumed to from his official duties. But he is presumed to missions, guarantees, discounts, &c., which most assent to and to ratify what the agent does under of them have heretofore paid to Northern brokers color of his office. On this ground, if an agent is and which have absorbed so much of the permanegligent in discharging his duty, the principal is further is to be required of him, in regard to the indentified with him, and answerable for consedelegation of his authority. If principals were quences. In regard to the rights of third parties the guaranters of their agents in all respects, who have had dealings with agents, the highest self, and come up and do his own individual duty

the whole line from St. Louis to Memphis with great carelessness would be induced on the part legal authorities declare the question to be, with what powers had those third parties the right to suppose the agents to be clothed? If they had good reason to suppose those agents to be authorized to were justified in buying them, and can claim in-

A Pennsylvanian decision in the case of the Equity Cases, is cited in support of the foregoing view of the case. The Schuylkill Bank of Pennsylvania was the Transfer Agent of the Bank of Agent of their stock, they must be considered as Kentucky. The stock of the former was limited to 50,000 shares. The Schuylkill Bank, as transfer agent, issued over 13,000 spurious shares .-The Bank of Kentucky relieved most of those who had suffered by means of the over issues, by buying in such spurious shares, and then filed a bill in the Philadelphia Common Pleas against the Schuylkill Bank to compel it to refund the money which they had so expended. The Schuylkill Bank insisted that the Bank of Kentucky were under no liability to pay for the spurious stock. The question was argued by the oldest Counsel of Pennsylvania, and decided in favor of the Bank of Kentucky, and on appeal to the Supreme Court of Pennsylvania this decision was affirmed, and the claims of the purchasers of spurious stock to be and indemnified were individually sanctioned. So the Bank of England is said to have been declared by the Queen's Bench to be bound by the transfer of Consols by its transfer agents, although such transfer was based upon a forged power of Attorney.vs. Birmingham 464.

Such is a general sketch of the present state of the controversy concerning over issues of stock, which will soon probably occupy the Courts .-Like the subject of mistakes, as Sir Roger De Coverly said, "much may be said on both sides."

Memphis and Charleston Railroad.

We understand that the Directors of the Memphis and Charleston Railroad have sold \$400,000 on the terms proposed by them. This we understand will enable the Company with their other means to lay their track through Alabama (150 miles) except 25 miles of iron West of Tuscum-

This is as it should be; our people are able and they should be willing to come up and put a part of their means into such important Internal Improvements as this; especially so, when the security offered is so ample, and the rate of interest is so good. Let every man who can come up and take a few of these bonds; the Company yet need more money to finish and fully equip their road, and the more means they get the sooner they will be able to finish the road and make the stock in it profitable, and give the country the advantages of the road.

Let our people divide their capital more; think more independent. Let us rely upon ourselves, build our own roads, keep the interest on the cap ital in our own country, and give to our Railroad companies the enormous rates of interest, comnent capital of our Companies.

Let us begin to rely on our own resources, then we can begin to feel independent, and not until then. Let every man take this home to him

and not wait for some one else to do what he ought to do.—Huniville Democrat.

Railway Share List,

American Railroad Journal.

Saturday, August 12, 1854.

Carhart's Turntables.

Stock and Money Market.

We annex those for June as	far as rece	eived.
1853.	1854.	Increase.
Cincinnati, Hamilton &		
Dayton\$32,301	\$39,975	\$7,572
Baltimore and Ohio,	sul elge	
(main stem) 189,967	316,802	126,835
Washington Branch 30,639	31,879	1,240
Michigan Southern148,346	185,653	36,706
Michigan Central 119,433	171,359	51,925
Macon and Western 15,592	19,750	4,158
Cleveland and Pitts-		Service school
burgh 35,828	47,229	11,903
Chicago and Rock Is-		10 9.100
land new	113,008	113,008
N. York and N. Haven. 59,738	70,254	10,519
Pennsylvania Central 156,928	227,652	70,674
Norwich and Worcester 26,411	25,780	
New York Central 882,654	492,784	111,079
New York and Erie 336,018	398,750	62,731
Ohio and Pennsylvania 55,244	82,059	26,815
Hudson River 94,978	128,073	33,094
Milwaukee and Missis-	Berry Bars	THOSE Y
sippi 18,585	45,078	26,490
Detroit and Pontiac 5,407	6,118	1,410
Sixth Avenue		in the bill
Eighth Avenue	25,758	C 1110+41+4
Kennebec & Portland. 12,176	17,700	5,524
Stonington 21,244	20,966	
Galena and Chicago 49,010	120,879	71,869
Indiana Central new	27,205	27,205
Rome and Watertown. 81,834	89,506	8,172
Cleveland & Columbus. 91,866	117,144	25,778

Saturday, August 1	2, 1854.	827(B 385)	NAME OF COMPANY.	000	l pai	(shide o	200	Ear astof	Hich	P	E
Carhart's Turnt	ables.	mid-lastvi	a late Transmit when the line of			F haoville 3	cost of	Gross F for lass year.	Net Earning last offici	Dividen	90 0
We are pleased to learn of the	continue	ed success	What har bounded had me	Wiles	ap.	Debt.	Tot.	108 y	las	i.	Price
f these turntables and that	they are	a rapidly			0	A110 1 100 1	11 5 0.4	O	A	1	-
aining their way to the confid	ence of t	he mana-	relieve il indicate became can		red Mass	communication of	o) Ivanili	and allas	(000) Ad (8	200	97
ers of important lines of road	in all pa	rts of the	Atlantic and St. Lawrence Ma		-1			254,748			
ountry. We know of many n	ew roads	both at	Androscoggin and Kennebec	. 5							
he South and west which are			Kennebec and Portland	" 7	_,_,_,			168,114			e 4
outting them down and many			Port., Saco and Portsmouth York and Cumberland,	4 2						6	1 0
ad specimens of them on tria			Boston, Concord and Montreal. N					23,946 150,538		none	
hat have now decided to equip			Concord	" 8			1,485,000				10
with them to the exclusion of o			Cheshire	41 5	2,078,625						3
Mr. CARHART is a very wort	he and	incenione	Northern	44 8				328,782	163,075	5	4
Mr. CARMART IS a very work	and and	notion of	Manchester and Lawrence	4 2			********			6	10
nechanic who superintends th	e constr	ad to be	Nashua and Lowell Portsmouth and Concord	" 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	651,214		51,513	8	1
is turntables in person and w	e are gi	ad to be	Sullivan	" 2			1,400,000 673,500			none	e 1
ble to say he has done so thus	iar with	the most		Vt. 6		550,000	1,745,516			none	-
attering success. Increasing of			Rutland	" 12			5,577,467		266,539		
les which has arisen from the	great sa	tisfaction	Vermont Central	" 11			12,000,000				
ney have given to engineers an	d Superin	ntendents	Vermont and Canada	" 4	1 -11		1,500,000	Leased to	the Vt. C	ent.	8
ho have used them is the bes	t evidence	ce of the	Western Vermont	" 5		760,000		Recently	opened.	none	9
haracte: of his work and the			Poston and Lowell	- 4		000 100	0.044	404.50	114 000	pone	8
e have no hesitation therefor			Boston and Lowell M Boston and Maine	ass. 2			2,044,536				100
Ir. CARHART to the attention			Boston and Providence	" 5			-,,	803,024 509,326			77
ers, on new or old roads, in ar				" 6	-11						96
			Cape Cod branch	a 29				68,942			4
the country. His list of refe			Connecticut Telvel	" 55		286,363	1,802,244				52
any of the best managed road			Eastern	58			,,	620,810			66
fengineers and Superintenden		e largest	rail biver	4.	-11						88
sperience throughout the Unic	n.	50.1	Fitchburg	" 6	-,,	,			214,633		11
Stock and Money M		11-33	New Deutord and Taumon	11 74	,		529,964 $2,221,068$	188,442 90,315	46,839 35,214	7	
The past has been an inanin		k in the	Old Colony	" 4	-,,			374,897	122,866		000
				" 1			307,136				1
hare market. Prices have fluc			Vermont and Massachusetts	" 77					13,144		11
nt, on the whole, are weaker.			Worcester and Mashua	" 46	1,140,000				81,807		60
tive feeling in the street, and			Western	" 158	-11			1,525,224			98
s nearly all who can leave the			Stonington R.			467,700		240,572			67
scape the extreme heat which	prevails.	August	Providence and Worcester	" 40		300,000		291,417	120,892	6	97
usually the dullest month of	the year,	and this	Canal Co	mn. 46				690 500	294,269	10	116
ear business of all kinds is unu	sually sl	ack.		" 110		800,000	3,150,000 2,500,000		168,902		
We have returns of the earn	ings for	July from		" 50			In progres	69,629			
ne or two roads only.	District Co			" 66	558,861		1,511,111	114,410			
We annex those for June as fa	ar as rece	ived	Hew Tork and Hew Haven	" 61	3,000,000	1,641,000	4,978,487		428,173	. 7	
1853.		Increase.	Naugatuck	62	,000	440,000				8	1::
incinnati, Hamilton &	1004.	Increase.	Hew Bolldon and Hew Haven.	00			1,380,610				40
Dayton\$32,301	\$39.975	\$7,572	Norwich and Worcester	" Y. 91							50
altimore and Ohio,	woo, 0.10	W.,	Buffalo and New York City N Buffalo, Corning and N. York.	" 132		, ,	2,550,500			none	
(main stem) 189,967	316,802	126,835		" 69		872,000	In progres 1,921,270	Recently			
Vashington Branch 30,639	31,879	1,240	Canandaigua and Niagara F	" 50	0.0,000		In progres		openeu.		
lichigan Southern148,346	185,653	36,706	Canandaigua and Elmira	47		582,400		76,760	39,360	none	
fichigan Central 119,433	171,359	51,925	Cay uga and Dusquenanna	" 35	687,000	400,000	1,070,786	74,241	23,496	none	
lacon and Western 15,592	19,750	4,158	Elito, (Lion Lors and Elito)		10,000,000	24,003,865			1,800,181	7	45
burgh 35,828	47,229	11,903	Hudson Mivel		-717		10,527,654		338,783	none	
hicago and Rock Is-	21,020	11,000	manicim	" 130 " 95			6,102,935		324,494 44,070	none	28
land new	113,008	113,008	Mulig Island	1 00	1,875,148 23,085,600	10 772 200	2,446,391	205,068	44,070		91
York and N. Haven. 59,738	70,254	10,519	TION TOTAL COMMENT STATES	118	1,579,969	2,969,760	5 133 884	480,137	195,847		10
ennsylvania Central 156,928	227,652	70,674	Oswego and Syracuse	85	350,000	206,000	633,598		46,072		
orwich and Worcester 26,411	25,780	111.050	Plattsburg and Montreal	23	174,042	131,000		Recently			
ew York Central 382,654	492,734	111,079	recussoract and paracoga	25	610,000	25,000	774,495	213,078	96,737		
ew York and Erie336,018 hio and Pennsylvania 55,244	398,750 82,059	62,731	Terretain celle it commission out	60		400,000					
nio and Pennsylvania 55,244 udson River 94,978	128,073	26,815 33,094	Derange and Heaving son	41	899,800	940,000	1,832,945				
ilwaukee and Missis-	220,010	00,002		32		100,000 700,000		Recently			33
sippi 18,585	45,078	26,490	Troy and Doston	96		650,000	1,693,711	225 152	116,706	8	92
etroit and Pontiac 5,407	6,118	1,410	Camden and Amboy N.	J. 65		000,000	4,827,499		478,413		148
xth Avenue	21,976		Morris and Essex	45		128,000	1,220,325	149,941	79,252		
ighth Avenue	25,758	C INC. See A	New Jersey	1 31	2,197,840	476,000	3,245,720	603,942	816,259		181
ennebec & Portland 12,176	17,700	5,524	New Jersey Central	63	986,106	1,500,000	2,379,880	260,899	124,740	3	
tonington 21,244	20,966	m4 000	Cumberland Valley Pe			13,000	1,265,143		76,890	5	
alena and Chicago 49,010	120,879		Harrishurgh and Lancaster	20		#10.00F		Recently			125
ome and Watertown. 81,834	27,205 39,506	27,205 8,172		-	880,100		7 141 097	200,827	106,820	7	65
leveland & Columbus. 91,366	117,144	25,778	Philadelphia and Reading Philad., Wilmington and Balt,		5 000 000	10,427,800 1 2,899,166	0 067 995	269 020	541 760	5	62 68
										40	435

the guaranters of their agents in all respects, who have ned deallage with agents; the highest self, and come up and do his own individual duty

togies of doubt the power of the average of those mental the trip Dith last, on the New York and will be drawn down into the car end out through

Railway Share List, a OSI HASH VAOIS

upiled from the latest returns—corrected every Wednesday—on a par valuation of \$100.

NAME OF COMPANY.	open.	paid in	debt.	Tot. cost of road and equipm't.	Earnings ast official	rnings for	nd for do.	Price of shares.
vis had the power couldness to guite to	Miles of	Capital	Funded debt.	Tot. cos	Gross for las	Net earnings last official	Dividend for	Price o
Pennsylvania CentralPenn.		dingstrag	5.000.000	13,600,000	13-1-7-8	617,625	1	97
Philadelphia and Trenton "	30	0,100,100						
Pennsylvania Coal Co "	47	10 110 000	E 077 100	22,254,338	0.000 400	700 100		102 50
Baltimore and Ohio Md. Washington branch	381	1.650.000	5,677,103	1,650,000	348,622	798,193 216,237		
Baltimore and Susquehanna "	57				413,673			
Alexandria and Orange Va.	65							•••
Manassas Gap	27 64	769,000	173.867	1,163,928	227.593	72,370	7	77
Richmond and Danville "	73	1.372.324	200,000	In prog.				70
Richmond and Petersburgh "	22 76	1,000,000	509 008	1,100,000 1,531,238				100
Rich., Fred. and Potomac " South Side "	62	1,357,778				110,200		
Virginia Contral "	107	1,673,684	469,150	2,392,215	210,052	99,077	10	50
Winghester and Potomac	73	2,650,091	707,958			42,736	none	98
Winchester and Potomac " Wilmington and Raleigh N .C.	32 161	180,000 1,338,878	120,000 1,134,698		89,776 510,038	153,898	6	
Charlotte and South Carolina. S. C.	110							
Freenville and Columbia "	140	1,004,231	500,000	In prog.		600 711	7	105
South Carolina	242	3,858,840		7,002,396 In prog.	1,000,717	609,711		125
Heorgia Central Ga.	191	3,500,000	418,187	3,465,879	986,074			116
deorgia "	211	4,000,000	1,214		934,424			
Macon and Western "	101 71			1,277,834	278,739 59,590			101
Muscogee	50	586,887	150.000	743,525		71,535		
Alabama and Tennessee River Ala.	55			In prog.				
Memphis and Charleston "	93	776,259	400,000	In prog.		• • • • • • • • • • • • • • • • • • • •	••••	
Mobile and Ohio	33 88	688 611		1,330,960		76.079		•••
Southern Miss.	0.01							
East Tennessee and Georgia Tenn.	80	835,000	541,000	In prog.				
Nashville and Chattanooga "	125 38	1,430,150	850,000 900,000	In prog.		• • • • • • • • • • • • • • • • • • • •		68
Covington and Lexington Ky.	29	357.218	300,000	584.902	87,421	44,250		80
Louisville and Frankfort "	65							
Maysville and Lexington " Cleveland and Pittsburgh Ohio.	100	1 979 100	1 142 200	In prog. 3,279,908	429 699	267 278	10	45
Cleveland and Pittsburgh Ohio.	147	2,000,000	1,600,000	3,219,908	102,002	201,210		77
Cleveland, and Erie "	95			1				
Cleveland and Columbus "	135 46	3,027,000	408,200	3,655,000	777,793	483,454	12	100
Columbus, Piqua and Indiana. "Columbus and Lake Erie "	61			2,000,000				90
Cincinnati., Ham. and Dayton "	60	2,100,000	500,000	2,659,653	321,793	200,967		102
Cincinnati and Marietta "	40			In prog.				62
Dayton and Western " Dayton and Michigan "	40 20	910,000	550,000	925,000 In prog.	Recently	opened.		18
Eaton and Hamilton "	36							56
Greenville and Miami	31			To		••••	• • • •	
Hillsboro " Little Miami "	37 84	2,668,402	482,000	In prog. 3,169,733		352,133	10	iii
Mansfield and Sandusky "		900,000	1,000,000	1,855,000				
Mad River and Lake Erie "	167			4,110,148	540,518	113,401		77
Ohio Central	57	****		in prog.				75
Ohio and Pennsylvania"	187	1,750,700	2,450,000		Recently			
Ohio and Indiana "				In prog.				
sciolo and nocking vaney	54	750,000 1,291,700	300,000	1,310,062	Recently	opened.	10	10
Columbus and Xenia " Evansville and Illinois Ind.	31	1,291,700	20,000			168,612		10
Indiana Central "				"				1 100 1
Indiana Northern " Indiana Pollafontaina "	131			10 66 179				
Indianapolis and Bellefontaine " Indianopolis and Cincinnati "	83 90	1.128 486	1.289 000	1,869,932	Recently	opened.		300
Lafayette and Indianapolis "	62					opened.		
Madison, Indianapolis & Peru "	159	2,647,700	1,241,300	2,400,000	516,414	268,075	10	8
Terre Haute and Indianapolis "Rock Island and Chicago Ill.	72	632,387	663,100		105,944			
Chicago and Mississippi	135	2,400,000	4,000,000	4,600,000			****	
Illinois Central "								
Galena and Chicago	92			In prog.	478,548			12
Michigan Southern and Ind. N.Mich Michigan Central	289	**** ****	3 977 58	7,276,616 8,618,506	1,200,922	582 816	17	8
reific Mo.	1000	V	0,011,000	In progre				10

The earnings of the Erie Railroad were largely reduced by the strike of the engineers in the employ of the Company. The amount of travel the present season is much less than was expected : Owing to the very general prevalence of the cholera we presume the western roads will be much more afflicted than any others. Still the result will probably show a large increase over a similar period for the past year. There does not appear to be any good reason for the present low prices of railway property in the receipts of our companies. Roads that unquestionably are earning, and in fact paying, dividends, ranging from 7 to 10 per cent. are very much depressed for no fault in the securities themselves, but from the fact that the market is overstocked, or that the public does not take a fancy toward railway investments. Confidence in the productiveness of railroads does not appear to be shaken, as the receipts of these works have more than justified expectation and have exceeded what was claimed for them.

The coinages of the Philadelphia Mint for seven months of 1854 have been \$28,911,559 against 35,879,927 for the same period of 1853. The deposits for the same period compared with those for 1853 have been as follows.

1853.	experience, a
Gold.	Silver.
January \$4,962,097	\$14,000
February 2,548,523	13,560
March 7,533,752	70,000
April 4,766,009	2,550,000
May 4,425,000	1,447,000
June 4,545,169	1,447,000
July 3,505,331	611,000
Total. \$33,285,882	\$6,152,560
1854.	Mi sot discutti
January\$4,215,579	\$108,000
February 2,515,000	1,166,000
March 3,982,000	147,500
April 3,442,000	129,000
May 4,000,000	196,000
June 4,000,000	100,000
July 3,910,000	310,000
Total. \$25,659,579	\$2,156,500

The exports for the same period have been \$20,368,436, of which \$14,738,871 have been in

Syracuse and Binghamton Railroad.

We learn that the work of laying iron on this road is making rapid progress, some 45 miles of the 80 being already completed. The balance of the work will be vigorously pushed forward, and the entire road will be ready for business in the fall, and in season to supply Syracuse and Oswego with their winter supply of coal. An abundant business awaits the opening of the road, which, with the low cost of the former, must render it a highly productive work. madural la jenera

New Railway Map.

Our new Railway map showing all the roads prcjected, in progress, and in operation in the United States and Canada at the present time, is ready for distribution. Price by mail ONE DOLLAR-Railway Companies supplied with copies to illustrate reports with their lines and connections colored on them at reduced prices. Address American Railroad Journal 9 Spruce st. New York.

AMERICAN RAILROAD JOURNAL

Improvement of the Locomotive. BY ZERAH COLBURN.

As an engineer and author, constantly engaged in the development and illustration of the locomotive, I have been often solicited to prepare a connected treatise upon its history, present condition and possible future improvement .-I have already supplied much descriptive matter in illustration of this subject, in a special treatise, now admitted as the only purely practical work on the American Locomotive. I have also often indicated many disconnected details of a system of improvements, and have urged their adaptation and adoption, and in such efforts am best known by the readers of this Journal.

The locomotive is, and, since its origination has always been in an intermediate and not in an ultimate state of improvement. In the early periods of steam locomotion, when the steam engine was in a primitive state, the relative merits of different arrangements could not always be clearly comprehended, and in the absence of improved standards of discrimination, the plans adopted by different builders were of very dissimilar charac-

As experience, acquired in active competition among railroad companies and engine builders, developed superior arrangements and proportions, these were gradually adopted, and thereby was nitiated an assimilation of the style of locomotives throughout the country; so that the engines of the present day approach a general standard, recognized by similar characteristics, in engines of different origin.

This tendency still exists, inasmuch as it has not yet perfected the locomotive. Efforts for improvement, and consequent assimilation of style. have still an ample field for success. Preferences, based upon a primitive practice of engineering, still operate in the construction of engines.

With this view, I shall make the present the introduction to a connected series of future articles, devoted to the consideration and analysis of a consistent system of improvements in the locomotive steam engine; not reaching altogether beyond the standard of present attainments, but discussing also the differences which occur in actual practice, with engines of different paternity.

With this purpose, I shall not enter into the description of details of machinery, any further than to indicate or establish principles, assuming that my readers are conversant with the construction and mechanical arrangements of locomotives as generally built. But although dispensing with "popular description," as characteristic of an elementary work, the tone of my discussion will be of an essentially practical character, and fully comprehensible by any who have observed the general structure of the locomotive.

It is always and already time to measure the means at our command for increasing the efficiency and economy of locomotives. The most effective and economical arrangements possible, may not be supplied as soon as the occasion may arise to change the plan or proportions of engines. The Hudson River, New York Central or any great trunk road in any part of the country may yet of the engines at present in use. Were there oc-casion, to day, to put upon the narrow gauge an engine of double the power of the average of those

at first trial, and preserve all the excellencies of three persons were smoking in the first car when the present system of motive power?

In anticipation of such a problem, engineers will do well to prepare themselves by every possible consideration of strength, weight, compactness, connection, and proportion of every material two or three more would have rendered the smoke and member of the locomotive.

Car Ventilation.

This subject continues to engross considerable of the public attention and deserves far more of t than it receives. The following communications evidently represent two distinct theories of ventilation, the respective parties considering their own superior. Would it not be much better for the advancement of the cause of healthy ventilation, for each one of our correspondents to state what he deems the cause of the difficulty. and then state explicity how he expects to overcome it by his mode of ventilation, than to spend so much time in demonstrating why any particular mode will not answer. Let experiments decide the utility of all, if the proprietors are willing and able to experiment, for that is the only process by which an inventor can be satisfied.

Correspondents should endeavor to be brief as possible, avoiding repetitions, and contradictory statement. If they must needs be critical ro controversial they owe it alike to themselves and their opponents, to make themselves thoroughly acquainted with the plans they criticise and discuss: Had "P. M. H." carefully examined Mr. LANCASTER's plan as described in his advertisement. We think he would not have used the expressin "when a window or blind is opened." If he had closely observed the very first paragraph he would have discovered that the outer windows were not intended to be opened,

(For the American Railroad Journal.)

If P. M. H. had not seen fit to repeat twice or more in his short article his chief objection to the Naugatuck Valley ventilator-that while passing through a train the air becomes charged with obnoxious odors from the bodies through and among which it circulates, and thus becomes impure and poisonous, it should have passed without further notice from me; but as such a reiteration may do injury to what I believe to be the best plan yet most persons who read your Journal know how to appreciate when set against random asser-

Experiments with a very delicate aneometer have shown that from 8000 to 15000 cubic feet of air will enter the first car per minute, varying according to the speed of the train.

A person breathes one fifth to one sixth of a cubic foot of air per minute; but the physiologists as they study the subject of healthy respiration become very exacting or squeamish and insist that each exhalation we vitiate 10 to 12 times as much as we breathe, thus they make out that each person vitiates 2 cubic feet a minute. According to this required supply Atwood and Waterbury's mode furnishes enough air for the healthy respiration of 4000 to 7500 passengers .have an accession of business beyond the capacity But a train of ten cars has only 500 to 600 passengers. Comment is unnecessary.

The writer was one of those present on experi-

in use, what engineer would accomplish the result New Haven Railroad to test this invention. Two or his attention was called to the fact and that the smoke could not be smelled in the rear cars. All the other smokers had the consideration to go to the rear of the train, for doubtless an addition of perceptible. This experiment demonstrates the propriety of the intimation in my former communication, that the supply of pure air is so abundant as to render it much like riding in the open air. All odors likely to arise are so diluted and dissipated as not to be perceptible.

> As a proof of the perfection of this mode of ventilation I wish to state that in cold weather, when the moisture of the breath would condense and ran down the glass in the cars supplied with air in the old way, no moisture would collect on A and W's cars, though if the front and rear door of one of their cars were closed it would appear in ten or fifteen minutes, but it would disappear in about the same time it took to collect when their mode was applied.

Bridgeport 31st July '54.

(For the American Railroad Journal.)

Your correspondent "K" in replying to P. M. H. has made some statements with reference to "Paine's system" that I feel called upon to correct, not merely for the sake of my bantling, or the disproving of "K's" position, but because I believe the discussion of the matter will bring out facts which new experimenters are not aware of, and thus, while saving them from expense and disappointment, furnish the elements of future success. "K" is wrong in assuming that Paine uses injectors or that the air is injected into the car.

The currents entering the car do not owe their velocity to the motion of the car roof through the air; the air currents always passing through the apertures in the roof, with eight to ten times the velocity of the trains' motion, and consequently do have a velocity of" 300 miles per hour." Seven eighths of the velocity and quantity of air entering the feeds in the roof is due to the exhausting properties of the windows, and it is the peculiar feature in the windows which draws the air out of the car, which constitutes Paine's patent. I am pleased that "K" has made the matter one offidevised I must ask room for a few figures, which gures, and here are wine. If the induct or feed of an air pump be one twelfth of the areaof thepiston, the velocity of the entering air will always, be twelve times that of the piston. Now according to "K," Paine's feeders or "injectors" have acapacity of 2.2 and according to Paine each window has an aperture or exhausting area of 90 square inches, which multiplied by 32, the number of windows in a car, gives us about 20 square feet of piston, or exhausting surface to 2 feet of feed duct, and it follows that the air entering has a velocity as ten to one compared with the cars motion, which allowing it to be 30 miles per hour, will be" 300 miles per hour." But an ocular demonstration has been, and can be made at any time, that the car is emptied 30 times in a minute. Make a smoke in the center of the car, and in two seconds of time it will reach the window.

The action of the windows in drawing air from the interior of the car is such that if but a simple hole is made in the roof a strong current of air mental the trip 20th inst., on the New York and will be drawn down into the car and out through

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above the roof being to manage the entering currents so as to free them from cinders; there is no injection about the matter, and "K" does not comprehend the subject he has criticised.

It may be asked, if so simple and perfect a mode exists why do not Railroad Companies adopt it?-

There are two replies to this question: First, too much is asked for the patent: second, under certain conditions smoke and the hot gases from the stack enter the feed on the roof. The last objection is a valid one, and if any mode can be devised to get rid of the smoke before it reaches the train, there is no difficulty in making a train as comfortable as a boat, and that too without any other fixtures or appendages than belong to the ordinary car-windows and ventilators.

H. M. PAINE.

(For the American Railroad Journal.)

The tenor of your last article on car ventilation seems to invite my opinion of Mr. Lancaster's mode of ventilation. As regards my opinion and its value in those matters permit me to remark, that it is predicated of practical experiment, not of theoretical supposition, and I am responsible for what I write as statements of facts. I am impatient to see perfect ventilation accomplished, and I cannot tamely witness time wasted, and railroad companies hardened against some good plan that may come up, by experiments that past experience have exploded. Your Journal is the oracle of railroad interests in this country, and if a few plain facts stated in its columns can serve the purpose of experiments, its value will most certainly be none the less.

Before proceeding to notice Mr. Lancaster's mode of ventilation allow me to make a parting allusion to the Atwood and Waterbury system. Your correspondent "K." admits that the air which passengers breath in the eighth car of a train must first pass through the seven cars ahead. but qualifies the admission by saying, "that the air rushes through the cars in such an amount as to dilute beyond the keenest smell all odors that have yet arisen." "K." does not give the velocity of this rush of air through the train, but the inventor rates it at from 4 to 8 miles per hour. It is not denied that such a current may exist in the first or second cars, in their passage ways, but it is denied that a current of one mile per hour is induced in a line with the passengers seats. The passenger next the gang way may perceive a current, but the one next the window does not. Does "K." wish a proof of this, let him place a brazier of coals on a passenger seat, and scatter some resin on them so as to produce a smoke. The smoke as it rises will describe eddies, slow and graceful in their gyrations, with an almost imperceptible motion towards the rear of the car. As car after car is reached those eddies grow less and less, and the smoke assumes the cloud form. And just so do the breath and exhalations of passengers move through the train, and this is called ventila-

Mr. Lancaster's mode of ventilation has the negative merit of being harmless. It is a system of injection. The air currents enter between the double roof with a velocity equal to that of the trains motion, but are at once retarded by the friction of their conduit and their deflection into the air channels or chambers on the cars' sides. The have no doubt its provisions will be extended so ter.

be less in the car than it was at the entrance of of commerce between the two countries, so that the conduit, and the velocity of the currents pass- practically the people of both will form one coming and pressing on the cars' external surface being equal to the entering current, how can it be ex- local institutions. pected that these weakened currents will neutralize the strong external one when a window or a blind is opened. During the summer of '52 a car running between Worcester and Springfield was fitted with ten injectors on its roof, the sum of whose area was five square feet. It was supposed that the great amount of air thus thrown down This fact presents a striking and refreshing coninto the interior of the car would create an interior pressure sufficient to expel any dust or cinders from the windows' openings. But on trial, under a speed of 50 miles per hour, a window could not be opened without the dust rushing in and when the window was closed the car was so hot as to oblige the passengers to leave it. Mr. Lancaster's plan or any other having for its basis the principle of interior pressure, will not accomplish the result, without involving requirements inconsistent with railroad usage,

Reciprocal Treaty with the British Provinces.

One of the last acts of Congress at its recent session, was a confirmation of the Treaty for removal of duties on certain articles of commerce between the British North American Provinces run is one of the best in the South. There is none and the United States. As the operation of the better settled, or which can show a larger amount Treaty is confined to the products of the Provinces, which are chiefly of the soil, and of fisheries, it would appear to be much more favorable to their interests, than to those of this country, as we already produce a surplus of all, or nearly all, the articles exempted from duty, except lumber relative advantage from the arrangement just entered into, than the United States, we have no doubt; but it would hardly be possible for the former to yield more at the present time: for to admit our manufactures duty free, would be to give up the sources of the present revenue by which all the expenses of their government are defrayed. prizes comparatively easy. It is a great thing to All things considered the Treaty secures to us all that the Provinces could well yield, or this coun- Such a one is the manner in which the affairs of try could reasonably ask. We shall derive a sub- the Mississippi Central R. R. have been conductstantial advantage from it, and it is no good ground against it, that other parties will gain more than ourselves.

Commercially, the British Provinces are as much to be benefitted by free trade with the United States as are Louisiana or Texas. The natural and convenient markets for all, are the Northern and Eastern States, which are occupied by our manufacturing and commercial classes. A very considerable portion of the products of the Provinces will not bear exportation to the mother country. They have been excluded from the markets of this, by high duties. The result has been that the Provinces, the lower ones particularly, have shown an enfeebled and languid growth when contrasted with the progress of the STATES, though in possession of unequalled resources. The new Treaty which removes all obstructions to intercourse with their best markets, will form an era in their history.

The treaty is gratifying evidence of the progress of liberal ideas in national intercourse. We

the windows. The only use of the projections pressing force of the air current will certainly as to embrace within a few years, all the articles munity, whatever may be the peculiarities of their

Mississippi Central Railroad.

Below we give the statement of the Mississippi Central Railroad Company. It will be seen that they are progressing quietly, but energetically, in the construction of their road, with means supplied by the contributions of the people upon its line. trast to the usual course of railroad companies in seeking to borrow before they have hardly put a spade into the ground. The road will be constructed with despatch, without incurring a debt. or at least one of any considerable magnitude. The promptness with which the necessary funds are furnished is owing in part to the trust reposed in the managing parties in the road, who possess the entire confidence of the people of Mississippi, a confidence greatly strengthened by their judicious management of the company's affairs. There are no lack of means in that portion of Mississippi traversed by the above line, but it is necessary that the people should be made to believe that they will secure the construction of the proposed work to call them out.

The country through which the above road will of productions. The great staple is cotton, all of which is to be exported; and, of course, corresponding amount in bulk, or value, imported. The road is built mainly for the incidental advantages that are to follow, though we have no doubt it will yield in dividends a large return upon its cost. and coal. That the Provinces will realize a greater The connections it will form will add largely to its value and usefulness.

> As far as Mississippi is concerned its success will constitute a marked event in the history of that State. It will inspire a degree of self-confidence and self-reliance on the part of her citizens which will render the execution of similar enterhave a commendable example set in the outset. ed; and those who have been mainly instrumental in its success, are entitled not only to the gratitude of those immediately to be benefitted, but to the respect and imitation of the whole State.

> REPORT OF THE DIRECTORS .TO THE STOCKHOLDERS. Soon after the adjournment of your last annual neeting a contract was concluded with Healy, Holeman, Sims & Sargent for the construction and equipment of your road from the town of Canton to the State line of Tennessee. The terms and conditions of the contract are in strict accordance with the basis of an agreement submtted for your consideration at the meeting above referred to, and approved of by an unanimous vote of stock holders then present. The contract is deemed highly favorable to your interest, securing the completion of the work at an early day, for a stipulated compensation, and on terms that should render it satisfactory to all the parties interested.-While it promises to you the speedy construction of an economical and permanent road, it offers assurances to the contractors of a reasonable remuneration for labor performed and risk incurred should they prosecute the work with the skill and economy they have heretofore exhibited in the execution of works of the same or similar charac

R is sti, ulated in the contract that the road being one hundred and eighty-three miles in length, with necessary side tracks—shall be completed, as now located, by January 1857, for the sum of \$3,262,500. This amount includes the cost of the necessary locomotives, passenger and freight cars, with all the fixtures for operating the road when completed, and all engineering expenses with the exception of the salary of the Engineer in Chief.—In every particular the work is to equal a first class road of the materials of which it is to be constructed.

Ground was first broken on the line of road at Holly Springs, on the 16th of November last, in the presence of the Board of Directors and a large concourse of citizens, assembled to witness and participate in the ceremonies of the day.

It was a source of pride to all who joined in the festivities of that day, and may well be a source of congratulation to each and all of the stockholders of the Company, as well as to the citizens of the State generally, that for the favorable pecuni-ary condition of the Company, and the certainty of the successful prosecution of the work now in progress, they were indebted to no foreign capital, to the aid of no commercial city or town, but solely to the liberality and enterprise of our own citzens, and mainly to the planting interest of the counties through which the road is to pass.

Active operations in the construction of the road bed were commenced by the contractors in Decemberlast, about twelve miles north of Holly Springs. From the progress made in the work on that part of the line and from the number of hands now employed thereon, you may confidently rely upon the road being in readiness for the cars from Holly Springs to the intersection of the Memphis and Charleston Railroad, a distance of twenty-five miles, by the first of January next.

During the month of January nearly all the earthwork within the limits of Yallabusha county was sub-let by Messrs. Healy & Co., to the citizens of that county, who soon thereafter commen-ced operations on their several contracts and are now prosecuting the work with an energy that gives assurance of its early completion.

Most of the graduation between the Tallahatchie River and town of Oxford, a distance of fourteen miles, has recently been sub-let to the citizens of Layfayette county, and it is expected that the work of the construction will soon be commenced on part of the line.

Proposals are now solicited for clearing, grubbing and grading the roadway in Carroll and Holmes counties, and should the citizens of those counties exhibit the same willingness to undertake work on that part of the road, that has been exhibited in the other counties, the commencement of operations on that part of the line, during the present summer or fall will be placed beyond reasonable doubt.

From the well known character and ability of the sub-contractors to comply with their engagements, the directory feel confident that the work unnertaken by them will be completed within the time, and in accordance with the stipulations of

several agreements. It has ever been the desire of the Board of Directors that citizens of this State should undertake and execute the work necessary to prepare the road-bed for the iron rails, and thus enable the Company to return to our own people, as a compensation for labor performed, some portion of the funds obtained from them for the construction of

The contractors, Messrs. Healy & Co., have at all times cheerfully co-operated with the directory in their efforts to accomplish this object, and it gives me pleasure to add, that nearly all the sub-contracts have been taken by men residing near the line of road, who, so far as the Directory are advised, are well satisfied with the compensation they are receiving for the work executed by them. By a continuation of this course, employment may be furnished to the surplus labor of this part of the State our citizens benefitted by the profits of that labor, a greater number of hands at all times

ongaged on that work, and the original contrac-tors will thus obviate the necessity of introducing more laborers from other States than will be required to execute that part of the work that our own citizens are unwilling to undertake.

It was first determined, to commence the con-

struction of the work on several divisions of the line to which iron could be most certainly and cheaply transported, at about the same period of

With this object in view, and with a desire that stockholders of the Company and citizens of the State should first have an opportunity of undertaking such portions of the work as they should wish to execute, in the month of December last, immediately after the commencing of the work on the northern division, an effort was made to sub-let the earthwork on that part of the southern division of the road within the limits of Madison and Yazoo counties. In consequence of the prices demanded for executing the work desired, the difficulty of obtaining the right of way without the prospect of paying heavy damages therefor; the unwillingness of the citizens of Madison county to aid in the construction of the road, by subcriptions to the capital stock of the Company, when they were to be greatly benefitted by its construction; the doubts then existing in regard to the completion of the Great Northern road to Canton, and the possibility of promoting your interest by extending your road to the city of Jack-son; all combined to indcue the directory to postpone for a time the commencement of the work on that part of the line, believing as they did, that a short delay would be advantageous to your interest by a removal of some or all of the then existing obstacles to an economical prosecution of that part of the work, and at the same time to give to the directory an opportunity to ascertain if a proper regard for your interest did not require that the road should be extended to the city of Jackson.

The result of the delay has not disappointed the expectations of the directory. Some of the difficulties referred to have been entirely removed, and it is confidently believed that others will soon be, or very much lessened in magnitude, so that the work may be commenced on that part of the line at an early day, and prosecuted with as much economy as on any other portions of the road.

The delay has not had a tendency to retard the progress of the work, or the ultimete completion of the entire road, nor in any manner been detrimental to your interest, but on the contrary advantageous to it.

The first consideration in determining the place of commencing the work of construction to select those points to which iron could be transported most certainly. Fortunately for the interest of the Company the divisions of the road offering the greatest facilities for the procurement of the iron rails were those places where labor could be most cheaply obtained, or where the least amount of earthwork was required for the construction of the road-bed. By prosecuting the work on these divisions the greatest amount of labor would be accomplished, or the greatest number of miles completed with the least outlay of capital.

The stockholders should not be unmindful of

the fact, that the directors are restricted by public pledge, in their calls upon the subscribers capital stock of the Company, to one-third of the amount of their several subscriptions in any one twelve months, and should the amount of work executed or value of materials furnished, exceed their means of payment, the credit of the Company must be impaired thereby, and the completion of the road retarded if not entirely abandoned.

It is equally important that the work performed should be connected, so that as soon as completed it may be made useful to the public and profitable to the Company.

An amendment to your charter was granted by the Legislature of this State at its recent session, and it becomes necessary for you to accept its provisions before you can avail yourself of its benefits. It authorizes a connexion of your road with the

The have no doubt its providing will be extended so ter

New Orleans, Jackson and Great Northern road at the city of Jackson, or at any point north of that city. It permits a consolidation of your Company with that of the Misissippi and Tennessee Central Railroad Company at any time it may be mutually agreed by both companies to do so, and thus form one continuous road under one organization, from your southern terminus northwardly through this State and Tennessee. These with other granted State and Tennessee. These, with other granted privileges of perhaps minor importance are consid-ered by the directory so advantageous to your interest; that they earnestly reccommend its accep-

The Engineer of the Company has been directed to survey a line from a point at the present location in Yazoo county to the city of Jackson and to estimate the cost of such an extension. citizens on the route of this new survey have been solicited to aid, by subscriptions to the capital stock of your Company, in raising the necessary funds to pay the additional cost of such extension in the event of its adoption. The estimates of the Engineer, and the amount of subscriptions thus obtained, are now in readiness to be submitted to the Board of Directors, and will enable them without further delay, to determine the point of connexion with the New Orleans, Jackson and Great Northern Railroad.

The Legislature by a recent law has authorized and required about one-third of the proceeds of the sale of the 500,000 acres of Internal Improvement Land donated by the General Government, in 1841, to this State for objects of internal improvement, to be invested in the capital stock of your Company. There is now in the State Treasury, a fund amounting to about \$360,000 derived from this source, about \$100,000 or nearly onethird of this sum is subject to the demand of the resident of the Board of Directors.

Of the 500,000 acres of land, there was remaining unsold on the first of May last 347,395 acres, according to a statement of the Secretary of State. From the funds now in the State Treasury, and from future sales of land, you may reasonably anticipate that your capital stock will be increased some \$300,000 or \$350,000.

During the pastfiscal year individual subscriptions to the capital stock of your Company have been largely augmented and now amount to \$1,-741,250, including the amount taken by the contractors.

Since your last annual meeting, the country of Holmes in its corporate capacity has subscribed \$100,000, and hopes are entertained that the county of Carroll will follow her example.

The available means of the Company to comply with the obligatious incurred by the contract with Messrs. Healy & Co., consist of indiv-ual subscriptions, as above stated...\$1,741,250

Subscription by the county of

Marshall \$100,000 abscription by the county of Lafayette.... 100,000 Subscription by the county of 150,000 Yalabusha.... Subscription by the county of 100,000-

-450,000 sales of Internal Improvement land, including the amount now in the 300,000 State Treasury, say

Making a total of \$2,491,250 Leaving the sum of \$771,250 to be hereafter

rovided for by additional subscriptions or by The individual stockholders have generally paid

the calls made upon their subscriptions, with great promptness, thus giving assurance that they may be relied upon for all further requisitions made upon them.

The High Court of Errors and Appeals having declared that part of your charter authorising countles to subscribe to the capital stock of your Company, a Constitutional law, the several counties that have availed themselves of that authority, during the past fiscal year collected by direct

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taxation and paid to the Treasurer of your Com-pany, nearly the amount necessary to liquidate the first annual instalment on their several sub-Vicksburg and Shreveport road; and the contem-

scriptions.

When it is remembered that these county subscriptions were to be paid in five or six annual instalments, by direct taxation on the taxable property of the county, and are based upon an as sed value of property in the subscribing counties amounting to \$24,912,451 00, they may be considered of the most reliable character and their payment placed beyond contingency

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By reference to the report of the Treasurer, herewith submitted and marked "A," it will be seen there has been paid into the treasury since the organization of your Company, on account of capital stock, the sum of \$256,859 26, and there has been paid out during the same period, on acnas been paid out during the same period, on account of construction, engineering, land damages, depot grounds, and other incidental expenses \$87,073 07, leaving in the hands of the Treasurer the sum of \$169,786 19, applicable to the prosecution of the work during the current year, and the liquidation of claims outstanding against the Com-

This is exclusive of the amount of the Internal Improvement Fund now in the State Treasury, subject to the demand of the Company; and you may confidently rely on the amount being considerably increased from payments that will be made from those who have heretofore neglected to pay the calls upon their subscriptions.

The Mississippi and Tennessee Central Railroad Company have concluded contracts for the construction of the road-bed from the northern boundary of this State to Jackson, Tenn., were it forms a junction with the Mobile and Ohio road, to be completed and in readiness for the iron rails by May, 1856.

That Company has abundant means at com-mand to prosecute the work to a final completion, and from the well known character of those having the road in charge, you may confidently rely on its energetic and successful prosecution. The road here referred to, being a direct northern continuation of yours to an intersection with the Mobile and Ohio road, and possessing the privilege of extension through the State of Tennessee, its com-pletion will materially increase the traffic and profits of the one in which you are sharehold

From the progress making in the construction of the Mobile and Ohio road in the States of Tennessee and Kentucky, there is no reason to doubt its completion to the Ohio River at a period anterior to the anticipated completion of yours, thus opening a direct railroad communication over the Illinois Central road with the city of St. Louis and the northern lakes, on the shortest possible line that can be obtained east of the Mississippi; intersecting in its course the contemplated roads from Memphis to Louisville, and from Nashville to the Mississippi River. Near the State line of Tennessee your road intersects the Memphis and Charleston road passing eastwardly from the city of Memphis to the city of Charleston.

Seventy miles of the New Orleans, Jackson and Great Northern Railroad from the city of New Or-leans north, is now in operation, and will be extended to the southern line of this State in all of next month. There is, at present, no cause to doubt its completion to the town of Canton before the expiration of the year 1856. Thus you have almost certain assurance that, by the expiration of the time when your road is to be completed, there will be a continuous line of railway of the same gauge, extending from extreme north to the city of New Orleans, traversing a country possessing the elements of almost unlimited agricultural wealth and offering facilities for the speedy inter-change of the productions of 11° of latitude. In addition to the connections with the impor-

tant roads already referred to, should it be deter-mined to extend your road to the city of Jackson, a junction will there be formed, not only with the New Orleans, Jackson and Great Northern road, but also with the southern road extending east

plated road from Jackson to Ship Island. are considerations worthy of serious reflection and should not be thoughtlessly rejected.

When these important railroad connections are duly considered, with the amount of freight and passenger traffic that may now flow from them; when you rflect upon the direct north and south line of your road; its remoteness from the compe-ting influence of other railways, and of the Mississippi River; the character of the country traversed by it; the quantity and value of the productions of the district tributary to it; the population within the range of its influence; the yearly amount of travel passing from north to south; can it be doubted that this long line of railway will not almost equal in its advantages and importance the Mississippi River itself, or that the certainty and amount of the income of your road, when completed, will not equal, if it does not exceed, that of any other road now constructing, or in contemplation in any of the south-western

The local traffic of a railroad is of the first importance, and none should be undertaken where the local passenger and freight traffic does not promise an income equal to the expense of opera-ting it when completed. The Central road possesses this assurance in an eminent degree.

In the district of country limited by its line of influence is contained more than one-fourth of the whole white and black population of the State, and there was grown more than one-fourth of the cotton and corn crop produced in 1849, in the whole State, according to the United States census of 1850. In addition to this, there is produced large quantities of agricultural commodities, now almost valueless to the producer, on account of expense of transportation to a market, that would become valuable articles of export upon the completion of the road. There are also extensive tracts of unimproved land, equal in quality of soil to any in the cotton growing region, that need but a cheap and certain means of transporting the productions of the country to market, to insure their cultivation and a very large addition to the quantity and value of our exports, thus securing to your road an amount of local traffic far exceeding any estimate that may have been made, based upon present population and production.

Notwithstanding the great benefits to be derived from the construction of your road, the profits that may reasonably be expected from its operation, and the means at the command of the directory for the prosecution of the work, its speedy completion must depend, in a great degree, not alone upon the directors, but upon the active and united co-operation of the stockholders of the Company. Upon them must the directory depend for the necessary means to comply with the engagements made with the contractors, and in turn the stockholders must looke to the directors for an economical and judicious expenditure of the means entrusted to them. By mutual confidence and uniæd action, all obstacles to an energetic prosecution of the whole work will be overcome, and its completion will be rendered as certain as its use will be beneficial.

Respectfully submitted by W. GOODMAN, President.

Charleston'and Savannah Ratiroad.

At an adjourned meeting of the subscribers to the Charleston and Savannah Railroad, held Wednesday the 12th ult., the following named gentlemen were elected President and Directors for the ensuing year:

President, Thos. F. Drayton; Directors, Hon. T. L. Hutchinson, Wm. Kirkwood, Edward Frost, Otis Mills, N. Heyward, W. F. Colcock, L. T. Potter, Daniel Hayward, W. B. Hodgson, J. Bradley, the train in pounds, and $\frac{1}{a}$ the fractional inclina-C. G. Meminger, J. B. Campbell.

Cleveland and Mahoning Railroad.

A meeting of the stockholders of this road took place in Warren, Ohio last week. The President Mr. Perkins, made a statement of the affairs of the Company, from which we glean the following. The stock account of the Company (including \$125,000 subscribed by Lawrence county, and applicable to the portion of the work in Pensylvania) is over one million of dollars. Of this amount \$850,000 is applicable to the construction of the line from Cleveland to Youngstown, 67 miles. About \$520,000 has been expended in con struction, right of way, etc., and about \$200,000 has been invested in the stock of the Ohio and Pennsylvania Canal. The amount of stock still believed to be collectable, and the real estate for sale, &c., applicable to the completion of the line from Cleveland to Youngstown, it is expected will realize \$230,000. The cash means required to complete to Youngstown exclusive of the iron, is about \$430,000, leaving still \$200,000 to be provided for. The Directors had prepared the Bonds of the Company, secured on a first mortgage, to the amount of \$850,000, but owing to the state of the money market, only \$37,500 have been sold. After much consultation, the following resolution

was passed by the stockholders:

Resolved, That to enable the Board to prosecute the work, efficient means should be taken to collect the sums due upon subscriptions of stock; and that it be recommended to the Board to issue in such sums as may be convenient, the convertible Bonds of the Company, to the amount of \$500,000, redeemable in ten years, bearing an interest of seven per cent. per annum, payable semiannually in cash, and secured by second mortgage upon the road; and that one-half of this sum offered for sale at not less than eighty cents on the dollar; but no Bond be issued until responsible parties shall have agreed, in such form as may be prescribed by the Board, to purchase a sufficient amount of such bonds to raise the sum of \$200, 000 .- Pitts. Gaz.

Resident Engineer's Headquarters.

STANSTEAD, SHEFFORD & CHAMBLY R. R. Granby, Canada East, Aug. 3d, 1854.

Gentlemen :- In the JOURNAL of July 29th, I notice some remarks by E. Nugent, C. E., on the equating of grades. I perceived some time since a misunderstanding among Engineers in regard to this subject, some equating for grades by adding one mile for every 20 feet of ascent, and some for every 80 feet: for comparison of different lines merely it matters little what is the number used, provided it is the same in both cases, but to find the equivalent horizontal line to any location, regard must be had to the nature of the expected

The elements of the problem are, the length and inclination of line, and the resistance of the train, which resistance depends on the weight and velocity of the load. Scott Russell's formula for the resistance to the motion of railroad trains gives the following results, the weight of the train being 50 tons.

Velocity				Lesistance
per hour.	BATTER			per ton.
Miles.				Pounds.
20				. 14.5
40				. 25.0
50			****	. 35.4
60		•••		. 39.0
100		*** ****		. 76.5

Let R = the resistance of a railroad train on a level, the resistance due gravity on an incline is

expressed by $W \times \frac{1}{A}$; where W is the weight of

tion of the gradient. Now the vertical height Stovals, Francises, and Lytles. The marble quarin feet to overcome which we must expend an ries are of the beautiful variagated, such as decorated and the power sufficient to move the load one proach within two miles of the road, near Salem mile on a level must be such that

$$W \times \frac{1}{a} = R;$$
or
$$\frac{1}{a} = \frac{R}{W}$$

To find then the number by which to equate proceed as follows. Supposing the train to weigh 50 tons or 112,000 lbs., and the velocity 20 miles per hour. The resistance from the above table is 141/6 lbs. per ton = 725 lbs. for the whole train, substituting which value in the formula $\frac{1}{2} = \frac{R}{W}$

it becomes:

$$\frac{1}{a} = \frac{725}{112,000} = \frac{1}{154} = 34 \text{ feet};$$

and the numbers for equating for the velocities in the table above are as follows:

20	miles	per	hour		34 fc	eet.
80	17	"	37		46	22.
40	23	"	"		58	,,
50	33	23	23		83	22
60		22	33		92	22
100	21	- 33	33	200.7	181	27
	L Dog	ery	respe	ectfu	lly	
				are	DOF I	TO

Winchester and Alabama Railroad.

The Agent of this road, W. N. Bilbo, Esq., has at last succeeded in obtaining in Franklin county its propoportion of the funds necessary for the completion of this road. Franklin county, for her population and resources, contributed more than ary other county to the construction of the Nashville and Chattanooga railroad; and it has strained every nerve to raise its quota for the Winches-

ter and Alabama railroad. The Winchester and Alabama railroad commends its importance to our citizens from various considerations. It opens the interior of Alabama to Mobile, and by branches tapping the main trunk, the Western portions of Georgia, and the Eastern portion of Mississippi, to the stock and grain producers of our State. For its extension intersects the Memphis and Charleston railroad ten miles from Huntsville, and at Gunter's Landing meets with the Mobile, Selma, and Tennessee Rairroad. It is of infinite importance to our grocery Merchants, who already partially supply this portion of the South with groceries. Nashville will soon become, as she now is in part, the exporter of the cotton of Jackson and Madison, and partially of other counties of North Alabama.-The completion of this road puts Nashville 120 miles nearer Huntsville by railroad than Memphis. Hence the great interest manifested by the citizens of Huntsville and North Alabama, for its immediate construction. They have already raised money enough to grade and timber that portion of the road to the intersection, and the entire Selma Mobile, and Tennessee Railroad is in a state of construction. Besides, all the funds necessary for the completion of the Memphis and Charleston railroad have been raised. Thus we see the im-portance of the immediate construction of the Winchester and Alabama railroad to the citizens of the Nashville and the tarmers of Middle Tennessee It is the most direct route to Mobile and New Orleans, and gives our farmers an advantage in market over those of East Tennessee and Kentucky being some 150 miles nearer.

This road also commends itself to our citizens from the following facts: ninety-five miles from Nashville commence the coal fields of the Cumberland Mountains. They approach this road within from three to five miles, and extend parallel with it for a distance of twelve miles. The coal is fine and the strata are from three to five feet. Those ions all over the land—and that their trade is of our knowledge belong to the Keiths, Whartons, very rapidly increasing. They are gentlemen of

sin to pounds, and - the fractional incilna-

commencing at the cotton factory of Hunt & Man, and extending six miles along the road. There and extending six miles along the road. There are forest of poplar, white oak, cedar, black walnut and cherry, indispensible to our furniture, engine, car, and steamboat manufacturers and builders. Vast deposites of iron are approached upon the lands owned by L. Mathews, within one quaries of a mile of the road, and miners have discovered in several portions of Franklin county, the outcrops or blossoms of Copper. Our informant saw several specimens tested. The most valuable are those owned and analyzed by Newman & Shook. Nashville must be the great market for the consumption and exportation of these minerals and lumber .- Nash. Union.

Columbia and Hamburg Railroad, Ga.

James G. Gibbes, Engineer, has completed the preliminary surveys of this road, and has submit-ted his report to the authorities of Columbia, by whom he was appointed.

Two routes were surveyed, the one which he designates the "low or direct line," runs within two and a half miles of Aiken, (why not unite with the Charleston Road at Aiken, and thus save fourteen miles of road?) and is 68½ miles long— an air line being 63½. The other which he designates "the upper or Ridge line," passes from Hamburg near the Cherokee Pond, Edgefield, C. H., etc., and intersects the "lower route" about eight miles from Columbia, making the distance 744 miles.

His estimates for the cost of construction of the wo lines are as follows:

No fines are as follows:
Direct line—68½ miles, \$1,105,625
Ridge line—74½ miles, \$1,040,925.
Being \$16,140 50 per mile for the direct, and \$13,972 14 for the Ridge line.

Rochester Scale Works.

Among the many items we call attention to, we would remember Messrs. Duryee & Forsyth, of Rochester, N.Y., Manufacturers of scales and safes. This enterprising firm has been before the public a number of years with their wares, and have gained a world-wide reputation.

Their scales are known by their correctness and durability. Their safes are of superior finish, and contain materials proof against fire-as has been proved in all instances when subjected to the test. Recently one of their Fire Kings was in a large fire at Brantford, C. W., with a large sum of money, books and papers in it, and all was preserved in good order—all of which speaks well for the manufacturers. Early this spring they erected a Railway Suspension Scale at Cleveland, for Messrs. Otis, Knight & Co., for weighing wheat by the car This scale was constructed upon a new plan invented by the senior partner of the firm (Mr. Duryee,) and is well worthy the attention of all railroad Companies, and others wanting such scales. This scale is of great utility, and must be far preferable to the old plan of constructing them.

Messrs. Duryee & Forsyth have done much to improve and bring into use weighing machinery and to bring the price of a good article to a fair standard, and within the reach of all wanting them. Previous to their engaging in the business, a high and exorbitant price was charged for scales, by New England Manufacturers, and when Messrs. Duryee & Forsyth entered the field, for a share of patronage, a strong hostility was kept up against them by their opponents, and persevered in with untiring zeal to crush them-but thanks to none but their own efforts for success, by their untiring perseverance and efforts they have succeeded.

Railroad companies, merchants and others are under obligations to Messrs. Duryee & Forsyth.— Had it not been for them they would have to pay exorbitant prices for their scales-and we are glad to know that they are winning golden opin-

honorable dealings and worthy of public patron-age.—Dyer's (Cin.) Bank Note Mirror.

Congress.

The session of the present Congress closed on the 8th inst. The present session has lasted eight months and among the most important measures consummated are the following:

The regular Appropriation bills. The Kansas and Nebraska bill.

The bill providing for six first class war steam-

The Ten Million bill of the Gadsden treaty. The Homestead bill for Kansas and Nebraska. The bill extending the warehousing system The bill to give effect to the Canadian recipro-

city treaty The bill repealing the Minnesota Railroad Land

Amongst the treaties ratified by the Senate, the

most important are:

The Gadsden treaty

The British Colonial Reciprocity treaty. The Commercial treaty with Japan. The Nentrality treaty with Russia.

Sundry treaties extinguishing the Indian titles in Kansas, Nebra ka and other Territories.

Among the bills which have failed are; The various railway schemes.

The French spo. ation bill of five millions.

The Pacific Rail oad schemes.

The Senate bill or eight millions for the relief of Texas.

Senate amendments of several millons to the general appropriation bills, including half a million to the Washington water works.

Mr. Olds, administration bills for the increase

of the rates of postage.

The bill for a line of steamers between San Fran-

cisco and China, &c. &c. And the bill to break up Collins steamship line

appropriations.

The River and Harbor bill met the Executive veto and failed to become a law.

Opening of the Chicago and Mississippi Rail

It will be seen by an advertisement in another column that the Chicago and Mississippi Railroad Company commence running through trains from this city to Alton and St. Louis to-day. Hitherto the railroad connection between Chicago and St. Louis has been made by three distinct lines of road. The link between Joliet and Bloomington has been completed, and now we have another great trunk line in operation to the Mississippi and the southwest. It is needless to speak of the great importance of this road to Chicago, bringing us, as it does, within twelve hours of St. Louis and the Lower Mississippi. That it will pay a large per cent. to the stockholders, and contribute largly to the business and wealth of our city, no discerning man entertains a doubt. The manner in which this road was built, speaks volumes for the energy and perseverance of the Company.—Chicago Press.

Chicago and Mississippi Railroad.

We understand that the resignation of Edward Keating, Esq., as Superintendent of the above road, took effect on yesterday. Mr. K., has dis-charged the arduous and incessant duties of his office with the most unremitting assiduity and industry; and the highly prosperous condition of the busines of the road, amply testifies with what results his diligent and persevering efforts to advance the interest of the company have been rewarded. Having been in feeble health for a few weeks past, he started on last Wednesday for the Eeast, where it is hoped his health will be entirely restored, by the change of air and scenery.— We but speak the sentiments of all connected with the road, when we say that the resignation is a source of deep regret to them, os well as to his nu-

merous friends and public in general.

His successor, Richard P. Morgan, jr., Esq., of Bloomington, assumes his duties of Superintenden

but also with the southern road extending east [O. C. Meminger, J. B. Casipbell.

to-day—a station which a long experience as construction engineer on the Joilet extension, has no doubt eminently qualified him to fill to the satisfaction of all parties.—Alton Tel.

Railway Traffic Returns.

Great	Western of Car	rada 229 miles.
Earnings fo	r week ending	August 4th.

From	Passengers	. 9,714
"	Freight	. 2,358
a	Sundries	. 1,074
	the manufacture of the San San and San and	
		412 148

	Number of Passengers 5,876
	Total since 1st Jan. 1854\$590,976
	" Passengers " 202,565
1	Grand Trunk Line of Canada 292 miles.
	Earnings for week ending July 22d.
	T 4 770 1-1-1 7 000

From	4,579	1st class passengers	5,333
**	323		- 236
**	2.418	tons mdze	5,86
**	557	M. feet lumber	2,02
41		cords firewood	1,319
46	, -,	Mails &c	779

Total \$	15,560
Total from July 1st 1854\$	
Great Western of Canada 229 miles.	
For the week anding July 28th 1854.	
D	0 10

Received for	passengers Freight			
	Sundries			
Total No. of passen	gers carried			

Total	\$12,569
No. of passengers carried	5,201
Do. since Jan. 1st 1854	196,689
Total Receipt since Jan. 1st	
Grand Trunk of Canada 292 mile	3.

	Criun	u	LTWI	br.	oj	Car	taua 25	2 7
For	week	en	ding	Ju	ıly	15,	1854.	

Received	for 5,261 passengers	\$6,094
66	3,175 tons freight	
66	641 M. feet lumber	2,185
**	636 cords wood	932
**	Mails &c	779

\$16,781 Total receipts since July 1st.....\$37,755 Railways in New Brunswick.

We learn from A. C. Morton, Esq., Chief Engineer of the European and North American Railway in New Brunswick, who is now in this city, that the contractors for building the E. & N. A. Railway in that Province, Messrs. Jackson, Brassey, Peto and Betts, are pushing on, with all practicable despatch, the construction of the entire line from St. John to the Gulf of St. Lawrence, and to the frontier of Nova Scotia. A large por tion of the rails are already delivered, and the iron bridges are either all received, or already shipped from England. All the principal bridges

are of iron, similar to those going up on the Que-bec & Richmond Railway, and the road is to be of a superior character throughout. Some difficulty exists, from the scarcity of laborers, but from the present posture of the work it is believed that during the coming year the line may be completed from St. John to the Nova Scotia line. The locating surveys are finished, and the work is subl-t to American contractors.—

State of Maine.

Penalty for Over-issues of Stock.

The Legislature of New Hampshire has passed the following law relative to over-issues of stocks:

"Any president, cashier, treasurer or secretary, or any other officer or stockholder of any bank railroad, manufacturing or other corporation in this State, who shall knowingly, falsely and willfully sign, issue, or cause to be issued, any shares, in the capital stock of their respective corpora tions, other than those authorized in their charter or by some amendment thereto, shall be deemed and adjudged guilty of felony; and when duly con-victed thereof, shall be punished by a fine not ex-

JOHN T. CLARK, State Rog. and Surveyor.

The Committee chosen to investigate the recent ove :- issue of 10,821 shares in the Vermont Central Railroad by Edward Crane, the President of the Company, have made a lengthy report. They ex-onerate all parties from the fraud except Crane; and after alluding to his previous over-issue of 2,000 shares, the Committee say: "To inflict a second injury in a corporation already prostrated by his misconduct, renders the act the more detestable, and when it is considered that everything was done to shield him from the consequences of his first transaction on the ground that he received no private benefit from it, he has added ingrati-tude to crime, and stands before the public an object of scorn and contempt."

Wabash Valley Railroad Company.

The annual meeting of the Stockholders of the Wabash Valley Railroad Company, was held at York, Ills., on the 3d inst,

The following gentlemen were unanimously elected Directors

Hon. A. T. Ellis, of Vincennes; Governor A. C. French. John Houston Esq., Dr. D. S. Meserve, Crawford county. Judge U. Mnaley, John B. Richardson, Gilead Shaw, Clark county; Jonathan Young, Hiram Sanford, S. Sutherland, Edgar

The Directory held a meeting the same day and

unanimously elected—
Hon. A. T. Ellis, President; John B. Richardson, Secretary: Joseph G. Bowman, Treasurer; and Charles Summers, Chief Engineer.

Cincinnati, Logansport and Chicago Railroad.

The following named gentlemen now constitute the Board of Directors in this Road

the Board of Directors in this Moad:
C. B. Smith, J. A. James, D. A. Powel, R. M.
Corwine, J. Pullen, Cincinnati; C. K. Hamilton,
New York; S. Meredith, Cambridge City; W.
Butler, Dublin, M. L. Bundy, J. C. Huddleston,
New Castle; W. Wright, Logansport.
On Monday last, C. B. Smith was elected President in the place of J. T. Elliott, resigned. A

change in the Board of Directors and the President is in consideration of a subscription of \$800,-000 to the Cincinnati, Logansport and Chicago Road, by the Cincinnati and Chicago Straight Line Company. This arrangement will, it is confidently believed, secure the completion of the road from New Castle to Logansport this fall.— Rich. Pallad.

To Contractors for Railroad Iron.

PROPOSALS will be received until the 20th September for nine thousand tons of railroad iron T pattern, sixty pounds to the yard, One-half to be delivered at Charleston, South Carolina, and one-half at Wilmington, North Carolina, delivery to commence in January and close in August, equal quantities to be delivered in each month at each place.

Payment will be made immediately on the delivery of each cargo, in North Carolina Funds. The contract will be given to the lowest responsible bidder provided the price be satisfactory. Bidders will endorse their bids—"Proposals for Railroad Iron"—and address them to Cyrus P. Mendenhall, Secretary, North Carolina Railroad Company, Greensboro, N. C. WALTER GWYNN, Chief Eng. N. C. R. R. Co. Raleigh, August 3d, 1854.

Raleigh, August 3d, 1854.

Steam Engine and Blowing Cylinders for Blast Furnace for Sale.

A STEAM ENGINE, 20 inch cylinder, and five feet stroke, together with Blowing Cylinders, five feet diameter, and six feet stroke, in perfect working order, for sale. Apply to EDW. BECH & KUNHARDT, 62 Beaver St., Or, A. TOWAR, Agent Pokeepsie Iron Works, 23tf Pokeepsie, N. Y.

Universal Scroll Chucks.

THOSE in want of a superior article and of various sizes will please call at or adress the Civil Engineers or parties who require his service MERIDEN MACHINE CO. 15 Gold-st. cornner of and will attend to business faithfully and efficient Platt, New York City.

every kind of work; and no proposition not thus

for not less than one nor more thanseven years, at the discretion of the Court." Railroad and Canal Co.'s Contractors, &c.

THE undersigned would direct the attention of Chief Engineers and Contractors to the facilities they possess for supplying them with laborers, mechanics &c., of any description, and also inferred the supplying them with laborers than that the factor and and add and also inferred the supplying them. form them that they forward and deliver such men at whatever destination they may be required. Companies or Contractors desirous of receiving

steady and industrious men, will be promptly supplied at the shortest possible notice.

JOHN J. HELLING & CO.

No. 86 Greenwich Street, New York.

26.4t

Lawrence Scientific School. HARVARD UNIVERSITY.

THE next term of this Institution will open on THE next term of this ansatzuaria was a full the thirty-first day of August, 1854, and con-

tinue twenty weeks.
Instruction by Recitations, Lectures and Practical exercises, according to the nature of the Study, will be given in:

Astronomy by Messrs. Bond.
Botany , Prof. Gray.
Chemistry, Analytical and Practical , , , Horsfo Horsford Comparative Anatomy and Physiology ,, Wyman. Mineralogy..... , , Cooke.

Physics, ", Lovering, Zoology and Geology ..., ", Agassiz.

For further information concerning the School application may be made to Prof. E. N. Horsford,

Dean of the Faculty.
CAMARIDGE, Mass., July, 1854.

For Sale.

BY the Baltimore and Ohio Raiiroad Company, 24 crate cars, adapted to Raiiroad purpose, which will be sold at a reasonable price. For further information, apply to.

SAMUEL J. HAYES,

M. of M., Baltimore and Ohio R. R. Co.,

Or BRIDGES & BRO,

9 tf 64 Courtland st., New York,

Railroad Iron at Auction.

NHURSDAY August 3d at twelve o'clock, at the sales room 54 William street

1268 tons English Rails, New York and Erie pattern, about fifty six pounds linear yard, of ap-

proved quality, make and pattern.

These Rails are in the United States Bonded warehouse at Brooklyn, and, convenient for ship-ments. Sample Bars can be seen at Auction Room. July 29. 1t

Lowmoor Iron.

BOW. BAILEY LANG & CO., 54 CLIFF STREET, have in stock and offer for sale an assortment of Round, Pint and Square Bars LOWMOOR IRON, which they will sell by the ton or single bar. The attention of manufacturers, Railway Managers and Mechanics is particularly directed to the quality of this Iron, as its great strength, uniformity, and freedom from flaws, render it the best Iron in the market, where first quality is

W. BAILEY LANG & CO., being Sole Agents in the United States and Canadas for the LOWMOOR CO., will execute or ders at manufacturer's prices.

To Civil Engineers.

J. M—, residing at 102, Third avenue, New York city—wishes to obtain the situation of assistant in a Civil Engineer's office, or the situation of Engineer or Superintendent of works. or for any department of work, or—having surveying instruments of his own—he would undertake surveys both for railroads and other works. He has been employed principally in Scotland.

He has been employed principally in Scotland surveying railways, superintending railway works, making surveys of Burghs, surveying for water

He most respectfully solicits the attention of THIEMEN LOROSTE

[N 14 29 H]

Pair-on, West Josep. or 74 Broadway, New York.

512 land has beerlast AMERICAN RAILROAD JOURNAL.

ZERAH COLBURN.

ENGINEER AND AGENT

R the Design, Construction, Valuation and Purchase of Lo-omotives and Railroad Machinery, rs his services to Railroad Companies in either of these iments, having long experience and the best facilities for

all.

A. COMBULTING ENGINEER he will advise as to the value or adaptation of any system of motive power, and furnish drawings, estimates and specifications for any arrangement of engine.

A. AOTHOE ENGINEER he will superistend the construction, survey, or reconstruction of any railroad machinery, and guarantee satisfactory results.

As COMPRACTING ENGINEER, having connection with the most reliable and successful manufacturers, he will negotiate for the purchase of Locomotives of the very best construction and proportions. Also Wheels, there and Repair Shop Machinery.

chinery.

Having much experience in Patent Business he will undertake the proparation of Drawings, Specifications, Applications for Patent or Caveat and other papers necessary for inventors. He is able to give material assistance in bringing inventions and improvements in Railroad Machinery into favorable notice.

CHILLED TIRES FOR LOCOMOTIVE DRIV-ING WHEELS.

Rerah Colburn retains the principal agency for the sale and right of use of this valuable improvement, and will furnish the most substantial guarantees of its Safety, Durability, Adhesion

ee, 3d floor American Railroad Journa! Building, No. 9 Spruce street, New York.

REFERENCES.

The New Jersey Locomotive and Machine Co.
James Jeckston, Pres't, Paterson, N. J.
Chas. W, Elliott, Vice Pres't, 59 Beaver str., N. Y.
Henry V. Poor, Esq., Editor Railroad Journal, New York.
Geo. D. Phelps, Pres't. Del, Lack and West Railroad.
Geo. W. Whistler, Vice Pres't New York & New Haven R.
William Raymond Lee, Esq., Boston,
Bush & Lobdell, Wilmington, Del.
Oliver M. Hyde, Esq., Mayor City of Detroit.

NUGENT'S COLLEGE

ENGINEERS AND MECHANICS.

Public Square, Cleveland, Ohio.

E. Nugent, C. E., Principal.

THE design of this Institution is to afford young men an opportunity of asquiring a knowledge of the profession of Cyil Engineering and to Mechanics and Tradesmen a sound theoretical and practical knowledge of Mathematics, Architectural and Mechanical Erafting, Plain and Ornamental Penmanhin &c.

nip, &c. For further particulars address the Principal.

New York and Erie R. R.

PASSENGER TRAINS leave Pier foot of Duane street,



BUFFALO EXPRESS, at 6 a. m. for Buffalo direct, over the Y. & E. R. R. and the B. & N. Y. C. R. R., without change baggage or cars.

f baggage or cars.

DUNKIRE EXPARSS, at 6 a. m. for Dunkirk.

Mail, at 8 ¼ a. m. for Dunkirk and Buffalo, and intermediate lations. Passengers by this Train will remain over night at my Station between Binghamton and Corning, and proceed the set morning.

mext morning.

WAY EXPRESS, at 1 p. m. for Dunkirk.

ROCKLAND PASSENGER, at 4 p. m., (from foot of Chambers Street) via Plermont, for Suffern and intermediate stations.

WAY PASSENGER, at 4 p. m., for Otisville, and intermediate

NIGHT EXPRESS, at 6 p. m. for Dunkirk and Buffalo. EMIGRANT, at 6 p.m., for Dunkirk and Buffalo and intermedi

EMIGRANT, at 0 pain, at 5 pain, at 5 pain, at 5 pains.

On Sundays only one Express Train—at 6 p.m.

These Express Trains connect at Elmira with the Elmira and Niagara Falls Railroad for Niagara Falls; at Buffalo with first-class splendid Steamers on Lake Erie for all ports on the Lake; and at Dunkirk with the Lake Shore Railroad for Cleveland, Cincinnati, Toledo, Detroit, Chicago, etc.

D. C. McCALLUM, General Sup't.

Power Planers.

THOSE in want of a small Power Planer which will plane 8 feet in length, 14 in. wide, and 12 in. deep, and made in a superior manner, will please call at the office of the MERIDEN MA-CHINE CO. 15 Gold-st. conner of Platt, New York

Any communication by mail directed to the of-fice or Factory (West Meriden, Ct.,) will meet with prompt attention.

For Sale.

A STATIONARY Engine, having cylinders 13 inches bore and 20 inches stroke complete in all respects and finished in the best manner. Has been in use about six months.

ROGERS, KETCHUM & GROSVENOR,

Paterson, New Jersey, or 74 Broadway, New York. jul.14 29 tf.]

TEW YORK STATE CANALS.—NOTICE TO CONTRACTORS. In pursuance of a resolution of the Contracting Board, notice is hereby given, hat sealed proposals will be received by the unersigned for the construction and completion of ework upon the several Canals of this State, escribed in the following tabular statement at the times and places therein mentioned:— CONTRACTORS. In pursuance of a resolution of the Contracting Board, notice is hereby given, that sealed proposals will be received by the undersigned for the construction and completion of the work upon the several Canals of this State, described in the following tabular statement at the times and places therein mentioned:-

ENLARGEMENT OF ERIE CANAL—WESTERN DIVISION.

Sealed proposals will be received at the Engineer's Office in the city of Buffalo, until the 1st day of September next, at 10 o'clock, A. M. for the following described work between Tonawanda and Black Rock :-

Section 360, with penalty in bond ot .. \$14,000. 20,000. 361, ,, 33 17,200 362 22 33 22 33 363, 10,000 9,800 364, 33 10,600. 365, 366, 15,800. 33 11 19 1 18 367 12 000 Guard Lock and Section at Black Rock... 14,000. Waste Weir on Section 360..... 500 Culvert on Section 862.... Bridge Abutments on Section 360 to Lock

Section inclusive.... 2,000. The above work to be completed by the first of April, 1857.

Sealed proposals will be received at the Engineer's Office in the city of Rochester until the 4th day of September next, at 10 o'clock A. M., for the following described work between Rochester and Spencerport:-

Section	266,	with	a	penalty	in	bond	of.	\$7,500.
"	267,	"		"	"	23	"	8,500.
11	268,			23	99	1)	13	6,700.
**	269,			27	"	23	"	6,100. 6,500.
33	270, 271,			23	33	"	23	5,200.
"	272,	37		"	23	39	33	5,600.
"	273,			"	22	. 33	23	7,200.
22	274,	- 11		33	,,	22	33	4,200.
22	275,	22		"	>>	11	23	10,200.
lverts o	on Se	ctions	20	36 and 2	75,	both	in-	

clusive do. do..... Bridge Abutments on Sections 266 to Section 270 both inclusive..... Bridge Abutments on Sections 271 to Section 275 both inclusive..... 2,000

The above work to be completed by April 1st 1856.

MIDDLE DIVISION.

Sealed proposals will be received at the Engineer's Office in the city of Syracuse until the 7th day of September next at 10 o'clock in the forenoon for the following described work:

Section	135	with	penalty	in	bond	of			\$5,400.
"	136		,,	22	"				
"	137		33	23	22				
1)	138	, ,,	, ,,	22	37				
	139	, ,,	7, 10	22	"				
"	140		1)	93	,,				
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The above work to be completed April 1st,

All propositions must be for a sum certain, a to the price to be paid or received, for each and every kind of work; and no proposition not thus

work or materials, or any part of the same; that he has no agreement or understanding with any other person to become interested in any other proposal or contract for the same work or materials, or any part thereof; and that no other person than such as shall be named in the proposal is interested in the same, or has any agreement or understanding to become interested in any contract that may be made in parsuance of such propos-

Every proposal for work or materials embraced in the above statements shall be accompanied with a bond to the people of this State, in the penalty specified opposite each kind of work in said statement, and which bond shall be signed by the party making such proposal and two or more responsible sureties, with such evidence of their responsibility as the contracting board shall require, and which sureties shall justify in sums equal in the aggregate to twice the amount of such penal-

Each proposal must be accompanied by the certificate of the Supervisior of the town, and the County Clerk, or the County Judge of the county in which said surety shall reside, or any two of them, as to the responsibility of said sureties.

The persons to whom the work may be awarded will be required by the contracting board to give the bond for the payment of laborer's wages, as required by chapter 278, of the laws of 1850. No acceptance of a proposal or award of a con-

tract by the contracting board, and no contract made by the said board, or any interest in the same, shall be assignable to any person or persons, without the written consent of the Canal Commis-

Fifteen per cent of the amount of any work done or materials furnished, at the contract price thereof, shall be reserved by the canal commissioner until the whole work, which is the subject of the contract, shall be fully and entirely completed.

In case the contracting board shall be of opinion that the proposals made at any meeting thereof pursuant to any advertisement, are, in consequence of any combination or otherwise, excessive and disadvantageous to the State, they may decline all the said proposals, and advertise anew for the work and materials embraced therein.

Contractors will be required to receive and use in the work all such materials as have been previously procured and delivered for any of the above work, and allow such prices therefor as may be exhibited at the several offices prior to the let-

The prices in the contract will be considered as including the expense of furnishing all the materials, and performing all the work, according to the plans, specifications and notices exhibited at the letting.

The persons to whom the work may be awarded, will be required to enter into contract for the performance of the work within ten days after the same shall have been awarded to him, upon the

terms prescribed by the contracting board.

The name or names of the persons proposing, must be written out in full, with their places of

The maps, plans, specifications, quantities of materials, propositions, blank contracts and bonds will be ready for examination at the several places specified in this notice, ten days previous to the times specified for the several lettings.

Dated at ABBANY, August 1st, 1854. HENRY FITZHUGH,
FREDERICK FOLLETT,
CORNELIUS GARDINIER,
CANAL COMM'rs.

JAMES M. COOK. Comptroller.

JOHN T. CLARK, State Eng. and Surveyor.